MITSUBISHI ELECTRIC
COOLING & HEATING

P-SERIES FULL LINE CATALOG

COMMERCIAL-GRADE APPLICATIONS

*Smart, Efficient **INVERTER-driven***
Ductless and Ducted Comfort Systems

VERSION | PSERIES_11.14 REPRINT | ©2014 MITSUBISHI ELECTRIC US, INC. | **FEATURING NEW H2I SERIES**

www.mitsubishipro.com

Take a Closer Look at the P-Series Commercial Systems from Mitsubishi Electric Cooling and Heating Solutions.

Explore the Ultimate Value in Today's Commercial HVAC Market.

For more than 30 years, Mitsubishi Electric has been a leader in the United States in providing the most energy-efficient, environmentally friendly HVAC products for commercial use.

Mitsubishi Electric's advanced technologies include INVERTER-driven compressor systems which use only the exact amount of energy needed to cool or heat an area. This feature means your customers will save energy—and major costs—while experiencing precise control over their comfort year-round.

Zone Control plus Personal Control

Split ductless and ducted systems use refrigerant lines to connect outdoor units to indoor air handlers. The result of this benefit is that the capacity within any space with an indoor unit installed can be controlled to provide the perfect temperature. Along with this capability to provide precise temperature control for any space, our systems also offer the unique ability to condition only those spaces in current use at any given time.

Mitsubishi Electric's systems employ user-friendly wireless hand-held, wireless wall-mounted, or wired wall-mounted controllers. These options deliver precision control to provide pinpoint comfort very efficiently. Zone control coupled with personal control equals all-around energy savings.

State-of-the-Art Design and Smarter Functionality

When you choose Mitsubishi Electric P-Series products for your commercial and major residential applications, you're making an excellent choice that your customers will appreciate for its intelligent function and the true, year-round Eco-comfort it delivers.

Quality

Mitsubishi Electric is consistently recognized by HVAC contractors as the #1 preferred HVAC ductless brand with the highest quality rating among manufacturers. Our products provide extraordinary service life extending years beyond the norm.

Performance

We deliver a complete range of compact and powerful cooling and heating products that are also intelligent, energy-efficient and quiet.

Training

We provide comprehensive product and applications instruction through our regional training centers across the United States.

Are Mitsubishi Electric P-Series Systems Truly Environmentally Friendly for Commercial Duty?

Count on Mitsubishi Electric to set the standard for making ecologically responsible systems that minimize the impact both on the environment and on your customer's carbon footprint.

The fact that up to 83% of our components are recyclable is just the beginning of our commitment. Mitsubishi Electric has more systems today that are ENERGY STAR certified than ever before. Local and state government plus utility companies may provide tax credits and rebate opportunities for energy-efficient systems. Check to see what is available in your area by visiting www.dsireusa.org.

Table of Contents

Introduction and Environmental Information

Product Showcase 04

System Overview and Technology 06

System Lineup. 08

PKA Wall-Mounted Heat Pump Overview 08

PLA Ceiling-Recessed Heat Pump Overview. 08

PEA/PEAD Horizontal Ducted Heat Pump Overview . . . 11

H2i® Hyper-Heating INVERTER Overview 12

H2i Heat Pump Specifications 13

PKA Wall-Mounted Specifications 14

PCA Ceiling-Suspended Specifications. 16

PLA Ceiling-Recessed Heat Pump Specifications. 18

PEA/PEAD Horizontal Ducted Heat Pump Specs 20

H2i Heat Pump Specifications 24

Controllers 26

Accessories 30

Diamondback® Ball Valves 32

Diamondback® Platform Stands 32

Diamondback® Linesets 33

Filter Boxes 33

Line-Hide™ 34

Lossnay 34

M-Series / CITY MULTI® Reference 35

Commercial-grade HVAC Applications?

Rely on Mitsubishi Electric's rugged, efficient P-Series systems to deliver maximum environmental comfort control plus energy savings for all of your needs.

Whatever P-Series system your client selects, you'll be backed start to finish with reliable technical and application support straight from Mitsubishi Electric Cooling and Heating Solutions. Our innovative technologies, environmentally advanced designs, and super-efficient systems are the right solution for your commercial, institutional, and large residential installations.

P-Series air conditioners and heat pumps are the perfect choice for an array of demanding commercial settings:

- Small or Large Office
- Server/Equipment Room
- Retail Shop
- Restaurant Kitchen
- Fitness Center
- Day Care
- Classroom
- Critical service, high reliability locations

PCA Indoor Unit
PKA Indoor Unit
PLA Indoor unit
PEAD Indoor Unit
PUY/Z Outdoor Units
PLA Indoor Unit

Discover How State-of-the-Art Technology Drives Dependable High Performance in the P-Series

Meet your customers' needs with cooling-only (PUY) or combination heat pump (PUZ) models. Each is compatible with any of the P-Series indoor units. You and your clients benefit from a wide range of installation possibilities.

Every rugged outdoor unit is completely assembled, piped, wired, and test-run at the factory prior to shipment. The heavy-duty, commercial-grade cabinet is constructed of galvanized steel plate, finished with electrostatically applied, thermally fused acrylic or polyester powder coating for superb corrosion protection. The front fan grille is tough, high-impact ABS plastic.

Quality construction in every Mitsubishi Electric P-Series unit sets the standard for all HVAC brands in North America.

Feature	Benefit
INVERTER Technology	Maximum energy-efficiency, precise temperature control, more consistent comfort in every space
Indoor unit powered by outdoor unit	Separate power supply not needed
Rugged housing, tough cabinet finish, strong welds at numerous stress points	Durability for years of reliable service
Durable, aerodynamic fan design	Super-quiet operation at all speeds
Quiet cooling operation down to 0˚ F*	High performance for all climates, south to north, east to west
L-shape condenser coil features copper tubing and aluminum fins	Greatly reduced debris accumulation that allows maximum airflow
Cabinet mounting and construction are designed to withstand 155 MPH winds	Peace of mind for customers in tornado/ hurricane-prone areas
Easy interior access to every P-Series indoor and outdoor unit	More efficient and less costly routine maintenance and servicing

* With optional wind baffle added

Highly efficient Mitsubishi Electric INVERTER-driven compressors for models PUY/Z (A18/24/30/36) and PUY (A12) are DC twin-rotor type. The compressor for model PUY/Z (A42) is a MItsubishi Electric Frame Compliant Scroll compressor. All compressors offer high performance due to advanced variable-speed INVERTER-drive technology, which varies the compressor speed dynamically to adapt continuously to the room load. Excellent efficiency and significant energy savings are the result.

Electronic linear expansion valves are employed to meter precisely and provide fine control to adapt the refrigerant flow continuously, ensuring exact capacity delivery. Mitsubishi P-Series outdoor models also utilize advanced Pulse Amplitude Modulation (PAM) circuitry. PAM adjusts the form of the current output wave to emulate the form of the supply voltage wave. These technological features offer the advantage that 98 percent of input power is utilized.

PUY/PUZ-NHA4/5
Cooling-only and Heat Pump

12,000 to
18,000 Btu/h

24,000 to
36,000 Btu/h

42,000 Btu/h

PUZ-HA**NHA4 (H2i®)
Hyper-Heating INVERTER

30,000 to
36,000 Btu/h

Mitsubishi Electric | System Technologies

Housed in the outdoor unit, the Mitsubishi Electric INVERTER-driven compressor responds to advanced sensor technology to detect subtle changes in temperature. Like a car's cruise control, the sensors automatically adjust the compressor speed to adjust system output perfectly. INVERTER-driven compressors dramatically reduce the system's energy use, unlike conventional units that run only at one speed, resulting in an endless wasteful cycle of starting and stopping.

Flexible Control

User-friendly and efficient zone control gives your customers the option to cool or heat only those spaces which are occupied. The controller does not even have to be in the space shared with the indoor unit. Among the energy-saving features of the controller are a weekly timer, temperature range limiting, auto-off, fault code notification, and service-call number display. Remote control via the internet from your Smart Device is available using RedLINK Technology

Easy-care Filters

Convenient tabs make it easy for anyone to remove the washable filters quickly for faster cleaning in the PKA, PCA, and PLA indoor units. Your customers will also save time and money because they won't need to replace the filters. PEA/PEAD models offer optional FB Series filter boxes for easy access and service.

Auto Cooling/Heating Changeover

When set to auto mode, P-Series systems continuously monitor indoor air temperatures, sensing when a space needs cooling or heating. The units automatically switch operation as needed to maintain a consistent level of comfort.

Bring in Outside Air

You will be able to install ducting with minimal on-site work to bring in outside air for PCA, PLA, and PEA/PEAD indoor units. A healthy, comfortable indoor environment is the result. Lossnay™ Energy Recovery Ventilators (ERVs) with integrated controls are also available. Outside air ventilation systems, ducting, and controls are provided separately.

Low Ambient Cooling

The P-Series provides exceptional low ambient performance.

For those applications requiring cooling performance during low ambient outdoor weather conditions, the P-Series, cooling-only and heat pump versions provide full capacity down to 23 °F and down to 0 °F with the addition to a wind baffle on the outdoor unit. Operation continues down to -18 °F with reduced capacity.

INVERTER Compressor

Shown inside insulated compartment

Mitsubishi Electric | System Technologies

In Mitsubishi's P-Series, Four Types of High-Performance Indoor Models Let You Match with a Versatile Lineup of Efficient, INVERTER-driven Outdoor Units to Provide a Truly Custom Solution.

P-SERIES INDOOR UNITS:

PKA Wall-mounted Air Conditioners and Heat Pumps

12,000-34,200 Btu/h

- Sleek, slim-line design
- Ductless installation
- Enabled for wall-mounted wireless, hand-held wireless or wired controller
  - Receiver for PAR-FL32MAA hand held, wireless, IR remote controller is built in as a standard feature on all PKA indoor units.
- Easy-clean, washable filter
- Ideal for spaces such as churches, classrooms, daycare centers, out buildings, small offices, server rooms and more

PLA Ceiling-recessed Air Conditioners and Heat Pumps

12,000-42,000 Btu/h

- Space-efficient ductless installation
- Built-in condensate lift mechanism
- Knockouts for ventilation air and branch duct run
- Optional i-see Sensor™ for precise temperature control
- Easy-clean, washable filter (optional high-efficiency filter available—requires multifunction casement)
- Enabled for wall-mounted wireless, hand-held wireless or wired controller
- Ideal for intermediate retail shops, classrooms, office spaces, conference centers, building lobbies, and more

PCA Ceiling-suspended Air Conditioners and Heat Pumps

24,000-42,000 Btu/h

- Slim, powerful indoor unit design
- Ductless installation
- Knockout for ventilation air
- Optional i-see Sensor™ for precise temperature control
- Enabled for wall-mounted wireless, hand-held wireless or wired controller
- Easy-clean, washable filter
- Suspends from ceiling for quick and easy installation
- Ideal for larger retail stores, classrooms, restaurants, office spaces, building entrances, plus energy-efficient additions, renovations, and more

PEA/PEAD Horizontal-ducted Air Conditioners and Heat Pumps

12,000-42,000 Btu/h

- Unobtrusive concealed ceiling design for short-run ductwork
- Built-in condensate lift mechanism
- Automatic fan speed control
- Enabled for wall-mounted wireless hand-held, wireless or wired controller
- Optional FB Series filter boxes for easy access and service
- Ideal in retail shopping centers, larger classrooms, auditoriums, office complexes, conference ballrooms, fitness centers, and more

See page 26 for information on the MHK1 Wireless Wall-mount Controller Kit

Ultimate Comfort Meets Ultimate Convenience

Select from a wired wall-mounted, wireless wall-mounted, or hand-held wireless controller for ultimate comfort control. With the handheld wireless remote controller the set-temperature display is large and easy to read. Using the 24-hour timer, you can set the unit operation to start and stop at specified times. The convenient remote provides easy control of the fan speed as well as the Cool, Heat, Auto, and Dry modes from anywhere in the room. The wall mounted wireless remote controller can be connected to the internet via a Gateway allowing for control of the P-Series System from a smart device or computer from any location with internet access. The hand-held wireless remote controller for P-Series systems is easier to use than most TV remotes.

Lightweight, Easy-to-install Indoor Unit

The smallest PKA unit measures about 36" wide, 11-1/2" tall, and 9-3/4" deep. It weighs just 29 lbs., is easily installed above windows or doorways, and can typically be installed by just two licensed installers in about a half day. The wall-mounted models don't require duct work, only a small three-inch opening in the wall or ceiling so they can be installed in some of the toughest spaces, even on brick and masonry walls.

Control Airflow Angle for Better Coverage

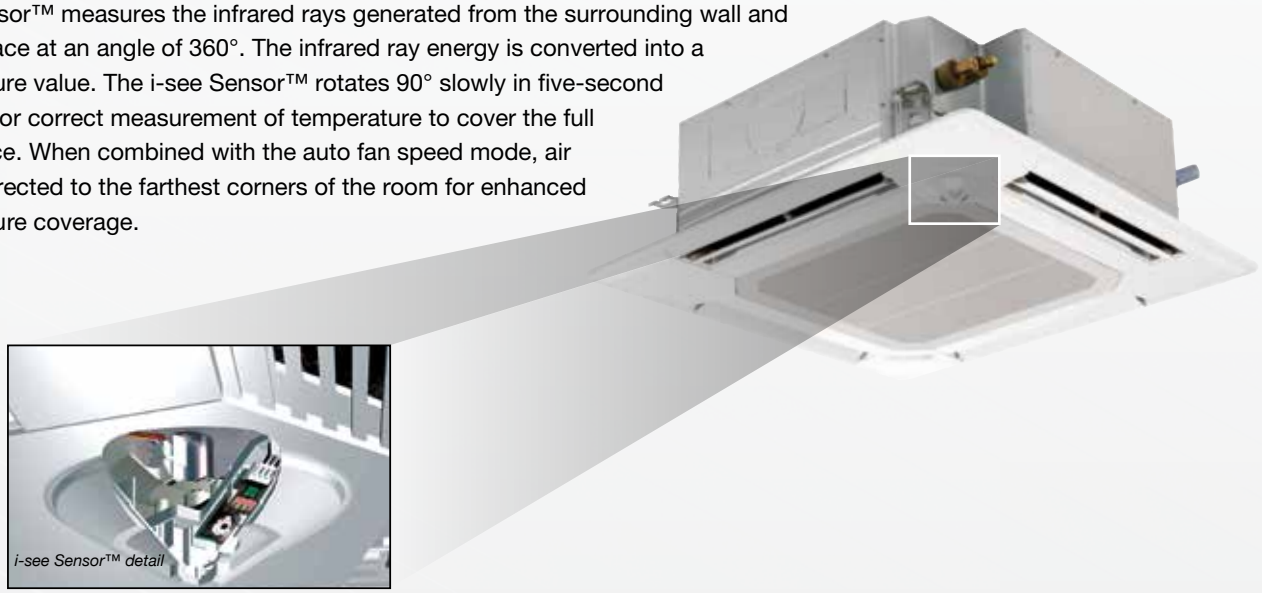
During operation the vane can be adjusted with the remote controller, to the perfect position to direct the airflow horizontally in cooling mode or towards the floor in heating mode, keeping room temperature even and comfortable. A simple press of the OFF button results in the vane closing the air outlet for a clean presentation when not in use.

Auto Vane Control

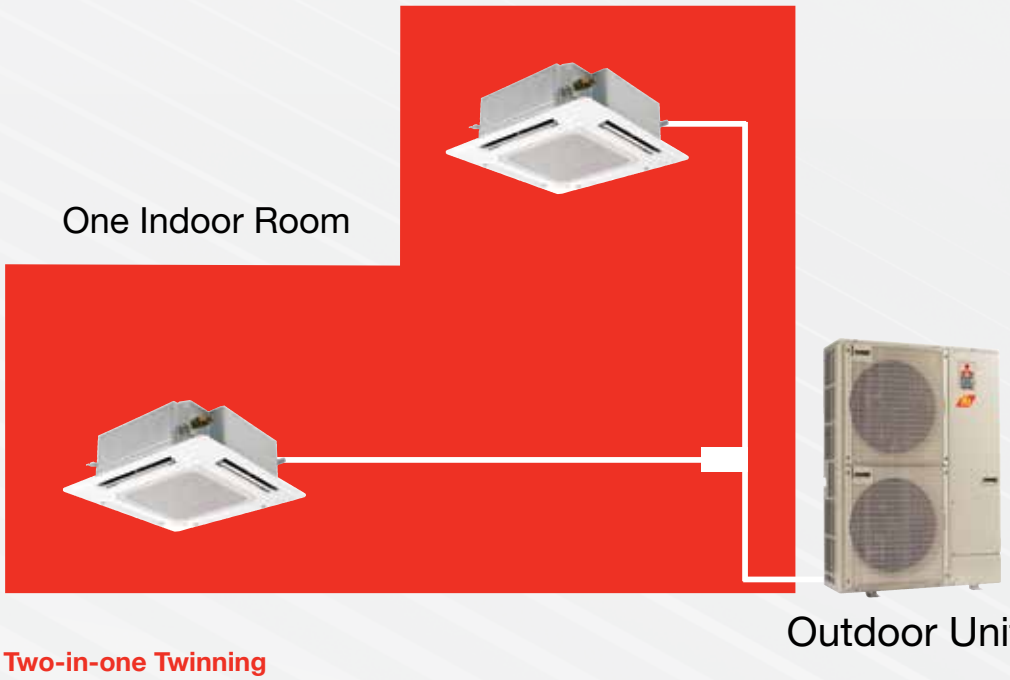
With the wired remote controller four different airflow positions can be set. The AUTO vane feature, when in use during cooling, permits the angle to self-adjust into a horizontal position and circulate cold air more effectively. During heating, the vane directs the hot air downward toward the floor where it will rise and circulate, keeping your room comfortable from top to bottom. The vane closes completely when not in use.

i-see Sensor™ Optional Accessory

In addition to the return air temperature sensor, the PLA-A**BA four-way ceiling cassette with the field-installed i-see Sensor™ measures the floor temperature in real time, observing the room vertically for better management of sensible temperature (temperature felt by the occupant). The i-see Sensor™ measures the infrared rays generated from the surrounding wall and floor surface at an angle of 360°. The infrared ray energy is converted into a temperature value. The i-see Sensor™ rotates 90° slowly in five-second intervals for correct measurement of temperature to cover the full floor space. When combined with the auto fan speed mode, air can be directed to the farthest corners of the room for enhanced temperature coverage.



i-see Sensor™ detail



Two-in-one Twinning

If you have a large space, such as a long room or hallway which would be considered one zone, two indoor units can be connected to one outdoor unit to cool or heat the space, providing the maximum amount of comfort. The process in which two indoor units act as one to spread the outdoor unit's capacity over a large area is called twinning.

Twinning applies to the PUY/Z-A24, A36, and HA36 outdoor units ONLY. The two indoor units must be the same capacity but do not need to be the same type -- they can be the same as 2 X PLA or different as 1 X PKA and 1 X PLA - as long as the capacities are the same. Piping limitations are: for the PUY/Z-A24 & A36 maximum combined total is 165 ft and for the PUX-HA36 maximum combined limit is 245 ft. Vertical difference between the two IDUs must not exceed 3 ft. Twinning also requires the use of one PAR-31MA controller -- it will control both indoor units and must be located in the conditioned space.

Built-in Drain Lift Mechanism

The PEA indoor unit features a built-in drain lift mechanism that lifts condensation up to 21-11/16 inches above the drain pan for the PEA and up to 27-9/16 inches for the PEAD indoor unit. The unit's fail-safe mechanism recognizes when there is a high liquid level in the condensate pan and shuts off the indoor fan and the outdoor unit compressor to prevent overflow.

When installed, the PEA/PEAD indoor unit utilizes short duct runs, allowing for the air conditioning of adjacent spaces or extending the range of distributed capacities within a single zone with very little visual impact to the conditioned area.

With features like a built-in condensate lift mechanism, adjustable static pressure, multiple fan speeds, DRY Mode, and an operating sound as low as 23 dB(A), the PEA/PEAD systems expand the number of application possibilities.

The Ducted air handlers come set up for rear return. The PEAD is convertible from rear to bottom return by relocating a cover plate. The PEA is convertible by using a BRP bottom return plate accessory.

(PUZ-HA)

It's below freezing outside? No sweat. The P-Series Hyper-Heating INVERTER systems work to provide the perfect temperature inside. It's all possible thanks to our responsive INVERTER compressor and patented flash injection technology. Even at 0° F, air-conditioning is possible with our wind baffle accessory. These light commercial zone solutions are perfect for any business, place of worship or school in any region of the country.

- 80% Hyper-Heating performance down to -13° F outdoor ambient.
- 100% heating capacity at 5° F outdoor ambient.
- PUZ-HA30NHA4: 18,000 - 30,000 Btu/h cooling / 18,000 - 34,000 Btu/h heating.
- PUZ-HA36NHA4: 18,000 - 34,200 Btu/h cooling / 18,000 - 40,000 Btu/h heating.
- Many ENERGY STAR qualifying systems.
- Low ambient cooling to 0° F with wind baffle.

P-SERIES (PUZ-HA) FEATURES

- **DRY MODE**
- **MULTIPLE FAN SPEEDS**
- **AUTO COOLING/HEATING CHANGEOVER**
- **TWINNING OF TWO**
  18KBtu/h indoor units possible from one 36KBtu/h outdoor unit for wider distribution of capacity
- **AUTOMATIC RESTART**
  Peace of mind and ease of use in the event of power outage
- **LINE LENGTHS**
  up to 245 ft
- **HOT START PROCESS**
  means warm air flows from the start

Heating Performance at Low Temperatures

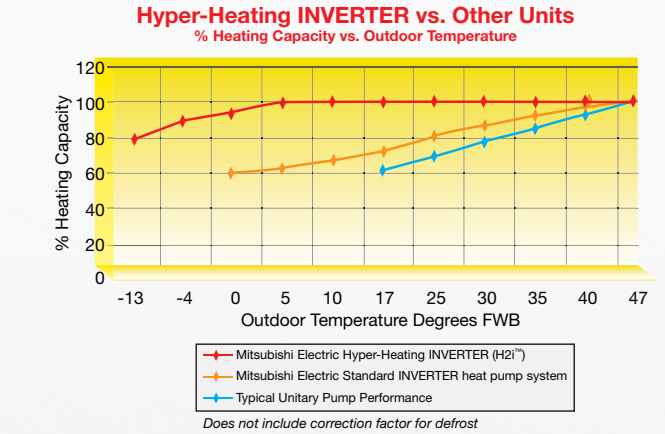
PUZ-HA30NHA4

COP if	PKA	PLA	PCA	PEAD
47˚ F	3.20	2.73	3.14	3.40
17˚ F	2.17	2.05	1.97	2.14
5˚ F	1.62	1.41	1.60	1.73

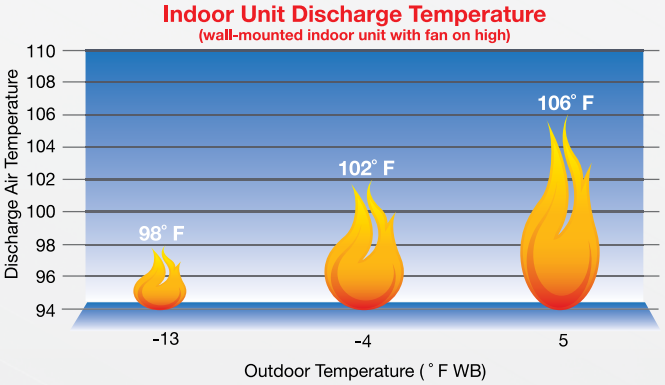
PUZ-HA36NHA4

COP if	PKA	PLA	PCA	PEAD
47˚ F	3.27	3.45	3.41	3.52
17˚ F	2.20	2.28	2.27	2.42
5˚ F	1.64	1.90	1.70	1.82

(Figure 1)



(Figure 2)



Heating Performance at Low Temperatures

Our exclusive H2i P-Series units recover heat energy that is normally wasted in the flash process at the outdoor coil. H2i flash technology helps the system overcome issues associated with conventional heat pumps, such as decreases in low-side pressure, refrigerant mass flow rate, and operational capacity. What you'll see is that the H2i P-Series units deliver 100% of rated heating capacity at 5˚ F and 80% at minus 13˚ F outdoor ambient temperatures (without the use of energy-consuming electric-resistance heaters).

(PKA-A30K4 MODEL SHOWN)

PKA COOLING-ONLY

BS = Seacoast Protection

Model Name	Indoor Unit		PKA-A12HA4	PKA-A18HA4	PKA-A24KA4	PKA-A30KA4	PKA-A36KA4
	Outdoor Unit		PUY-A12NHA4 (-BS)	PUY-A18NHA4 (-BS)	PUY-A24NHA4 (-BS)	PUY-A30NHA4 (-BS)	PUY-A36NHA4 (-BS)
Cooling *1	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	34,200
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200
	Total Input	W	1,190	2,240	2,270	4,130	5,030
	Energy Efficiency	SEER	15.2	15.3	17.0	15.5	14.0
	Moisture Removal	Pints/h	2.0	5.2	5.0	8.1	9.2
	Sensible Heat Factor		0.81	0.68	0.77	0.70	0.70
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *2				
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V				
	Indoor - Outdoor S2 - S3		DC ± 24V				
Indoor Unit	MCA	A	1				
	Blower Motor (ECM)	F.L.A.	0.33		0.36		0.57
	Blower Motor Output	W	30		56		56
	Airflow (Lo-Mid-Hi)	DRY (CFM)	320-370-425		635-705-775		705-810-920
		WET (CFM)	290-335-380		570-635-700		635-730-830
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	36-40-43		39-42-45		43-46-49
	External Finish Color		Munsell No. 1.0Y 9.2 / 0.2				
	Dimension Unit	W: In.	35-3/8		46-1/16		
		D: In.	9-13/16		11-5/8		
		H: In.	11-5/8		14-3/8		
	Weight Unit	Lbs.	29		46		
	Field Drainpipe Size I.D.	In.	1/2				
Outdoor Unit	MCA	A	13		18	25	
	Recommended Fuse/Breaker Size	A	15		25	30	
	MOCP	A	15	20	30	40	
	Fan Motor (ECM)	F.L.A.	0.35		0.75		
	Fan Motor Output	W	40		75		
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary				
		R.L.A.	12				
		L.R.A.	14			17.5	
	Airflow	CFM	1,200		1,940		
	Refrigerant Control		Linear Expansion Valve				
	Sound Pressure Level at Cooling *1	dB(A)	46	48			
	External Finish Color		Munsell No. 3Y 7.8 / 1.1				
	Dimensions	W: In.	31-1/2		37-3/8		
		D: In.	11-13/16 + 7/8		13 + 1-3/16		
		H: In.	23-5/8		37-1/8		
	Weight	Lbs.	82	89	163		
Refrigerant	Type		R410A				
	Charge	Lbs., oz.	2, 14	3, 12	6, 10		
	Oil	Type (fl. oz.)	FV50S (20)		FV50S (28)		
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8		
	Liquid Side O.D.	In.	1/4		3/8		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100				
	Length (Max.)	Ft.	100		165		
Connection Method	Indoor/Outdoor		Flared/Flared				

NOTES: Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).
*2. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PKA-A30KA4 MODEL SHOWN)

PKA HEAT PUMP

INVERTER

R410A

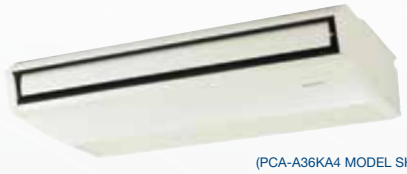
BS = Seacoast Protection

Model Name	Indoor Unit		PKA-A18HA4	PKA-A24KA4	PKA-A30KA4	PKA-A36KA4
	Outdoor Unit		PUZ-A18NHA4 (-BS)	PUZ-A24NHA4 (-BS)	PUZ-A30NHA4 (-BS)	PUZ-A36NHA4 (-BS)
Cooling *1	Rated Capacity	Btu/h	18,000	24,000	30,000	34,200
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-34,200
	Total Input	W	2,240	2,270	4,130	5,030
	Energy Efficiency	SEER	15.3	17.0	15.5	14.0
	Moisture Removal	Pints/h	5.2	5.0	8.1	9.2
	Sensible Heat Factor		0.68	0.77	0.70	0.70
Heating at 47° F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000
	Total Input	W	1,970	2,330	3,150	3,610
	HSPF (IV)	Btu/h/W	9.5	10.8	8.9	9.3
Heating at 17° F *3	Rated Capacity	Btu/h	13,000	18,000	23,000	25,000
	Total Input	W	1,670	2,200	2,850	3,030
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *4			
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V			
	Indoor - Outdoor S2 - S3		DC ± 24V			
Indoor Unit	MCA	A	1			
	Blower Motor (ECM)	F.L.A.	0.33	0.36		0.57
	Blower Motor Output	W	30	56		56
	Airflow (Lo-Mid-Hi)	DRY (CFM)	320-370-425	635-705-775		705-810-920
		WET (CFM)	290-335-380	570-635-700		635-730-830
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	36-40-43	39-42-45		43-46-49
	External Finish Color		Munsell No. 1.0Y 9.2 / 0.2			
	Dimension Unit	W: In.	35-3/8	46-1/16		
		D: In.	9-13/16	11-5/8		
		H: In.	11-5/8	14-3/8		
	Weight Unit	Lbs.	29	46		
	Field Drainpipe Size I.D.	In.	1/2			
Outdoor Unit	MCA	A	13	18	25	
	Recommended Fuse/Breaker Size	A	15	25	30	
	MOCP	A	20	30	40	
	Fan Motor (ECM)	F.L.A.	0.35	0.75		
	Fan Motor Output	W	40	75		
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary			
		R.L.A.	12			
		L.R.A.	14		17.5	
	Airflow	CFM	1,200	1,940		
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	48			
	Sound Pressure Level at Heating *2	dB(A)	47	50		
	External Finish Color		Munsell No. 3Y 7.8 / 1.1			
	Dimensions	W: In.	31-1/2	37-3/8		
		D: In.	11-13/16 +7/8	13 + 1-3/16		
		H: In.	23-5/8	37-1/8		
	Weight	Lbs.	91	165		
Refrigerant	Type		R410A			
	Charge	Lbs., oz.	3, 12	6, 10		
	Oil	Type (fl. oz.)	FV50S (20)	FV50S (28)		
Refrigerant Pipe	Gas Side O.D.	In.	1/2	5/8		
	Liquid Side O.D.	In.	1/4	3/8		
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)	Ft.	100	165		
Connection Method	Indoor/Outdoor		Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).
*2. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6º C).
*3. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 17º F (-8.3º C), W.B. 15º F (-9º C).
*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.



(PCA-A36KA4 MODEL SHOWN)

INVERTER

R410A

PCA COOLING-ONLY

BS = Seacoast Protection

Model Name	Indoor Unit		PCA-A24KA4	PCA-A30KA4	PCA-A36KA4	PCA-A42KA5
	Outdoor Unit		PUY-A24NHA4 (-BS)	PUY-A30NHA4 (-BS)	PUY-A36NHA4 (-BS)	PUY-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	2,340	3,760	4,630	4,110
	Energy Efficiency	SEER	16.8	14.5	14.4	15.8
	Moisture Removal	Pints/h	5.8	8.3	8.5	11.7
	Sensible Heat Factor		0.73	0.69	0.73	0.69
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *2			
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V			
	Indoor - Outdoor S2 - S3		DC ± 24V			
Indoor Unit	MCA	A	1		2	
	Blower Motor (ECM)	F.L.A.	0.54		0.97	
	Blower Motor Output	W	95		160	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025
		WET (CFM)	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
	External Finish Color		Munsell No. 6.4Y 8.9 / 0.4			
	Dimension Unit	W: In.	50-3/8		63	
		D: In.	26-3/4			
		H: In.	9-1/16			
	Weight Unit	Lbs.	71		79	84
	Field Drainpipe Size I.D.	In.	3/4			
Outdoor Unit	MCA	A	18	25		26
	Recommended Fuse/Breaker Size	A	25	30		
	MOCP	A	30	40		
	Fan Motor (ECM)	F.L.A.	0.75			0.4 + 0.4
	Fan Motor Output	W	75			86 + 86
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary			INVERTER-driven Scroll
		R.L.A.	12			20
		L.R.A.	14	17.5		27.5
	Airflow	CFM	1,940			3,530
	Refrigerant Control		Linear Expansion Valve			
	Sound Pressure Level at Cooling *1	dB(A)	48			51
	External Finish Color		Munsell No. 3Y 7.8 / 1.1			
	Dimensions	W: In.	37-3/8			
		D: In.	13 + 1-3/16			
		H: In.	37-1/8			53-1/8
	Weight	Lbs.	163			258
Refrigerant	Type		R410A			
	Charge	Lbs., oz.	6, 10			10
	Oil	Type (fl. oz.)	FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	5/8			
	Liquid Side O.D.	In.	3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)	Ft.	165			
Connection Method	Indoor/Outdoor		Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).
*2. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PCA-A36KA4 MODEL SHOWN)

PCA HEAT PUMP

BS = Seacoast Protection

Model Name	Indoor Unit		PCA-A24KA4	PCA-A30KA4	PCA-A36KA4	PCA-A42KA5
	Outdoor Unit		PUZ-A24NHA4 (-BS)	PUZ-A30NHA4 (-BS)	PUZ-A36NHA4 (-BS)	PUZ-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	2,340	3,760	4,630	4,110
	Energy Efficiency	SEER	16.8	14.5	14.4	15.8
	Moisture Removal	Pints/h	5.8	8.3	8.5	11.7
	Sensible Heat Factor		0.73	0.69	0.73	0.69
Heating at 47° F *2	Rated Capacity	Btu/h	26,000	32,000	37,000	45,000
	Capacity Range	Btu/h	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000
	Total Input	W	2,310	3,210	3,190	3,830
	HSPF (IV)	Btu/h/W	10.9	9.2	10.2	10.2
Heating at 17° F *3	Rated Capacity	Btu/h	18,000	23,000	25,000	30,000
	Total Input	W	2,200	2,940	2,800	3,820
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *4			
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V			
	Indoor - Outdoor S2 - S3		DC ± 24V			
Indoor Unit	MCA	A	1		2	
	Recommended Fuse/Breaker Size	A	25	30		
	Blower Motor (ECM)	F.L.A.	0.54		0.97	
	Blow Motor Output	W	95		160	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025
		WET (CFM)	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
	External Finish Color		Munsell No. 6.4Y 8.9 / 0.4			
	Dimension Unit	W: In.	50-3/8		63	
		D: In.	26-3/4			
		H: In.	9-1/16			
	Weight Unit	Lbs.	71		79	84
	Field Drainpipe Size I.D.	In.	3/4			
Outdoor Unit	MCA	A	18	25		26
	MOCP	A	30	40		
	Fan Motor (ECM)	F.L.A.	0.75			0.4 + 0.4
	Fan Motor Output	W	75			86 + 86
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary			INVERTER-driven Scroll
		R.L.A.	12			20
		L.R.A.	14	17.5		27.5
	Airflow	CFM	1,940			3,530
	Refrigerant Control		Linear Expansion Valve			
	Defrost Method		Reverse Cycle			
	Sound Pressure Level at Cooling *1	dB(A)	48			51
	Sound Pressure Level at Heating *2	dB(A)	50			55
	External Finish Color		Munsell No. 3Y 7.8 / 1.1			
	Dimensions	W: In.	37-3/8			
		D: In.	13 + 1-3/16			
		H: In.	37-1/8			53-1/8
	Weight	Lbs.	165			260
Refrigerant	Type		R410A			
	Charge	Lbs., oz.	6, 10			10
	Oil	Type (fl. oz.)	FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	5/8			
	Liquid Side O.D.	In.	3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100			
	Length (Max.)	Ft.	165			
Connection Method	Indoor/Outdoor		Flared/Flared			

NOTES: Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80° F (27° C), W.B. 67° F (19° C); Outdoor: D.B. 95° F (35° C), W.B. 75° F (24° C).
*2. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 47° F (8° C), W.B. 43° F (6° C).
*3. Rating conditions (heating)-Indoor: D.B. 70° F (21° C), W.B. 60° F (16° C); Outdoor: D.B. 17° F (-8° C), W.B. 15° F (-9° C).
*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PLA-A36BA4 MODEL SHOWN WITH OPTIONAL i-see SENSOR™)

PLA COOLING-ONLY

BS = Seacoast Protection

Model Name	Indoor Unit		PLA-A12BA4	PLA-A18BA4	PLA-A24BA4	PLA-A30BA4	PLA-A36BA4	PLA-A42BA4
	Outdoor Unit		PUY-A12NHA4 (-BS)	PUY-A18NHA4 (-BS)	PUY-A24NHA4 (-BS)	PUY-A30NHA4 (-BS)	PUY-A36NHA4 (-BS)	PUY-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	1,260	1,940	2,500	4,100	4,500	4,600
	Energy Efficiency	SEER	13.5	14.2	13.6		14.2	14.4
	Moisture Removal	Pints/h	1.7	3.0	5.1	7.2	8.1	10.9
	Sensible Heat Factor		0.84	0.81	0.76	0.73	0.74	0.71
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *2					
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V					
	Indoor - Outdoor S2 - S3		DC ± 24V					
Indoor Unit	MCA	A	1				2	
	Fan Motor (ECM)	F.L.A.	0.51				1.00	
	Fan Motor Output	W	50				120	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	390-420-460-530	420-490-570-640		490-570-640-740	710-810-920-1,060	780-880-990-1,090
		WET (CFM)	350-390-420-490	390-460-530-600		460-530-600-710	670-770-880-1,030	740-850-950-1,060
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	27-28-29-31	28-29-31-32		28-30-32-34	32-34-37-40	34-36-39-41
	External Finish Color (Panel)		Munsell No. 6.4Y 8.9 / 0.4					
	Dimension Unit (Panel)	W: In.	33-1/16 (37-3/8)					
		D: In.	33-1/16 (37-3/8)					
		H: In.	10-3/16 (1-3/8)				11-3/4 (1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13)		51 (13)		55 (13)	
	Drain Lift Mechanism (Included)	H: In.	33-7/16					
	Field Drainpipe Size I.D.	In.	1					
Outdoor Unit	MCA	A	13		18	25		26
	Recommended Fuse/ Breaker Size	A	15		25	30		
	MOCP	A	15	20	30	40		
	Fan Motor (ECM)	F.L.A.	0.35		0.75			0.4 + 0.4
	Fan Motor Output	W	40		75			86 + 86
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary					INVERTER-driven Scroll
		R.L.A.	12					20
		L.R.A.	14			17.5		27.5
	Airflow	CFM	1,200		1,940			3,530
	Refrigerant Control		Linear Expansion Valve					
	Sound Pressure Level at Cooling *1	dB(A)	46	48				51
	External Finish Color		Munsell No. 3Y 7.8 / 1.1					
	Dimensions	W: In.	31-1/2		37-3/8			
		D: In.	11-13/16+ 7/8		13 + 1-3/16			
		H: In.	23-5/8		37-1/8			53-1/8
	Weight	Lbs.	82	89	163			258
Refrigerant	Type		R410A					
	Charge	Lbs., oz.	2, 4	3, 12	6, 10			10
	Oil	Type (fl. oz.)	FV50S (20)		FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8			
	Liquid Side O.D.	In.	1/4		3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100					
	Length (Max.)	Ft.	100		165			
Connection Method	Indoor/Outdoor		Flared/Flared					

NOTES: Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).
*2. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

(PLA-A36BA4 MODEL SHOWN WITH OPTIONAL i-see SENSOR™)

PLA HEAT PUMP

BS = Seacoast Protection

Model Name	Indoor Unit		PLA-A18BA4	PLA-A24BA4	PLA-A30BA4	PLA-A36BA4	PLA-A42BA4
	Outdoor Unit		PUZ-A18NHA4 (-BS)	PUZ-A24NHA4 (-BS)	PUZ-A30NHA4 (-BS)	PUZ-A36NHA4 (-BS)	PUZ-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	1,940	2,500	4,100	4,500	4,600
	Energy Efficiency	SEER	14.2	13.6		14.2	14.4
	Moisture Removal	Pints/h	3.0	5.1	7.2	8.1	10.9
	Sensible Heat Factor		0.81	0.76	0.73	0.74	0.71
Heating at 47° F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	45,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000
	Total Input	W	1,900	2,570	3,370	3,300	4,450
	HSPF (IV)	Btu/h/W	9.8	8.5	8.7	9.3	
Heating at 17° F *3	Rated Capacity	Btu/h	13,000	16,000	23,000	25,000	30,000
	Total Input	W	1,590	2,200	3,050	3,070	4,300
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *4				
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V				
	Indoor - Outdoor S2 - S3		DC ± 24V				
Indoor Unit	MCA	A	1			2	
	Fan Motor (ECM)	F.L.A.	0.51			1.00	
	Fan Motor Output	W	50			120	
	Airflow (Lo-M1-M2-Hi)	DRY (CFM)	420-490-570-640		490-570-640-740	710-810-920-1,060	780-880-990-1,090
		WET (CFM)	390-460-530-600		460-530-600-710	670-770-880-1,030	740-850-950-1,060
	Sound Pressure Level (Lo-M1-M2-Hi)	dB(A)	28-29-31-32		28-30-32-34	32-34-37-40	34-36-39-41
	External Finish Color (Panel)		Munsell No. 6.4Y 8.9 / 0.4				
	Dimension Unit (Panel)	W: In.	33-1/16 (37-3/8)				
		D: In.	33-1/16 (37-3/8)				
		H: In.	10-3/16 (1-3/8)			11-3/4 (1-3/8)	
	Weight Unit (Panel)	Lbs.	49 (13)	51 (13)		55 (13)	
	Drain Lift Mechanism (Included)	H: In.	33-7/16				
	Field Drainpipe Size I.D.	In.	1				
Outdoor Unit	MCA	A	13	18	25		26
	Recommended Fuse/Breaker Size	A	15	20	30		
	MOCP	A	20	30	40		
	Fan Motor (ECM)	F.L.A.	0.35	0.75			0.4 + 0.4
	Fan Motor Output	W	40	75			86 + 86
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary				INVERTER-driven Scroll
		R.L.A.	12				20
		L.R.A.	14		17.5		27.5
	Airflow	CFM	1,200	1,940			3,530
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound Pressure Level at Cooling *1	dB(A)	48				51
	Sound Pressure Level at Heating *2	dB(A)	47	50			55
	External Finish Color		Munsell No. 3Y 7.8 / 1.1				
	Dimensions	W: In.	31-1/2	37-3/8			
		D: In.	11-13/16 + 7/8	13 + 1-3/16			
		H: In.	23-5/8	37-1/8			53-1/8
	Weight	Lbs.	91	165			260
Refrigerant	Type		R410A				
	Charge	Lbs., oz.	3, 12	6, 10			10
	Oil	Type (fl. oz.)	FV50S (20)	FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2	5/8			
	Liquid Side O.D.	In.	1/4	3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100				
	Length (Max.)	Ft.	100	165			
Connection Method	Indoor/Outdoor		Flared/Flared				

NOTES: Test conditions are based on AHRI 210/240.

*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).

*2. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6.1º C).

*3. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 17º F (-8º C), W.B. 15º F (-9º C).

*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PEA-A18AA4 MODEL SHOWN)

INVERTER

R410A

PEA/PEAD COOLING-ONLY

BS = Seacoast Protection

Model Name	Indoor Unit		PEA-A12AA4	PEA-A18AA4	PEAD-A24AA4	PEAD-A30AA4	PEAD-A36AA4	PEAD-A42AA4
	Outdoor Unit		PUY-A12NHA4 (-BS)	PUY-A18NHA4 (-BS)	PUY-A24NHA4 (-BS)	PUY-A30NHA4 (-BS)	PUY-A36NHA4 (-BS)	PUY-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	6,000-12,000	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	1,240	2,150	2,400	3,850	4,850	5,350
	Energy Efficiency	SEER	13.6	14.3	16.0	15.5	15.0	13.8
	Moisture Removal	Pints/h	2.47	3.26	6.9	8.6	7.9	9.0
	Sensible Heat Factor		0.77	0.80	0.68		0.75	0.76
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *2					
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V					
	Indoor - Outdoor S2 - S3		DC ± 24V					
Indoor Unit	MCA	A	1	2	2.63	2.73	3.30	3.50
	Blow Motor (ECM)	F.L.A.	0.57	0.74	2.10	2.18	2.64	2.80
	Blower Motor Output	W	96		121		244	
	Airflow (Lo-Mid-Hi)	DRY (CFM)	247-317-388	423-529-635	512-636-742	618-742-883	847-1,024-1,201	1,042-1,254-1,483
		WET (CFM)	222-285-349	381-476-572	494-600-671	565-671-812	777-953-1,130	953-1,165-1,412
	External Static Pressure	In. WG	0.02 - 0.06 - 0.14 - 0.20		0.14 - 0.20 - 0.28 - 0.40 - 0.60			
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	23-28-33	30-34-38	30-33-37	30-34-39	33-38-42	36-40-44
	External Finish Color		Galvanized-steel Sheet					
	Dimension Unit	W: In.	39	46-7/8	43-5/16		55-1/8	
		D: In.	27-9/16		28-7/8			
		H: In.	7-7/8		9-7/8			
	Weight Unit	Lbs.	48	62	73		91	95
	Drain Lift Mechanism (Included)	H: In.	21-11/16		27-9/16			
	Field Drainpipe Size I.D.	In.	1					
Outdoor Unit	MCA	A	13		18	25		26
	Recommended Fuse/ Breaker Size	A	15		20	30		
	MOCP	A	15	20	30	40		
	Fan Motor (ECM)	F.L.A.	0.35		0.75			0.4 + 0.4
	Fan Motor Output	W	40		75			86 + 86
	Compressor	Model (Type)	DC INVERTER-driven Twin Rotary					INVERTER-driven Scroll
		R.L.A.	12					20
		L.R.A.	14			17.5		27.5
	Airflow	CFM	1,200		1,940			3,530
	Refrigerant Control		Linear Expansion Valve					
	Sound Pressure Level at Cooling *1	dB(A)	46	48				51
	External Finish Color		Munsell No. 3Y 7.8 / 1.1					
	Dimensions	W: In.	31-1/2		37-3/8			
		D: In.	11-13/16 + 7/8		13 + 1-3/16			
		H: In.	23-5/8		37-1/8			53-1/8
	Weight	Lbs.	82	89	163			258
Refrigerant	Type		R410A					
	Charge	Lbs., Oz.	2, 14	3, 12	6, 10			10
	Oil	Type (fl. oz.)	FV50S (20)		FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2		5/8			
	Liquid Side O.D.	In.	1/4		3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100					
	Length (Max.)	Ft.	100		165			
Connection Method	Indoor/Outdoor		Flared/Flared					

NOTES: Test conditions are based on AHRI 210/240.

*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).

*2. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6.1º C).

*3. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 17º F (-8º C), W.B. 15º F (-9º C).

*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PEA-A18AA4 MODEL SHOWN)

PEA/PEAD HEAT PUMP

INVERTER

R410A

BS = Seacoast Protection

Model Name	Indoor Unit / Outdoor Unit		PEA-A18AA4 / PUZ-A18NHA4 (-BS)	PEAD-A24AA4 / PUZ-A24NHA4 (-BS)	PEAD-A30AA4 / PUZ-A30NHA4 (-BS)	PEAD-A36AA4 / PUZ-A36NHA4 (-BS)	PEAD-A42AA4 / PUZ-A42NHA5 (-BS)
Cooling *1	Rated Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000
	Capacity Range	Btu/h	8,000-18,000	12,000-24,000	12,000-30,000	12,000-35,000	18,000-42,000
	Total Input	W	2,150	2,400	3,850	4,850	5,350
	Energy Efficiency	SEER	14.3	16.0	15.5	15.0	13.8
	Moisture Removal	Pints/h	3.26	6.9	8.6	7.9	9.0
	Sensible Heat Factor		0.80	0.68		0.75	0.76
Heating at 47° F *2	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	45,000
	Capacity Range	Btu/h	8,000-20,000	12,000-28,000	12,000-34,000	12,000-38,000	18,000-48,000
	Total Input	W	1,540	2,250	2,990	3,290	3,820
	HSPF (IV)	Btu/h/W	10	10.2	9.4	9.8	10.0
Heating at 17° F *3	Rated Capacity	Btu/h	13,000	18,000	23,000	25,000	30,000
	Total Input	W	1,520	2,130	2,750	2,810	3,820
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208 / 230V *4				
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V				
	Indoor - Outdoor S2 - S3		DC ± 24V				
Indoor Unit	MCA	A	2	2.63	2.73	3.30	3.50
	Blower Motor (ECM)	F.L.A.	0.74	2.10	2.18	2.64	2.80
	Blower Motor Output	W	96	121		244	
	Airflow (Lo-Mid-Hi)	DRY (CFM)	423-529-635	512-636-742	618-742-883	847-1,024-1,201	1,042-1,254-1,483
		WET (CFM)	381-476-572	494-600-671	565-671-812	777-953-1,130	953-1,165-1,412
	External Static Pressure	In. WG	0.02 - 0.06 - 0.14 - 0.20	0.14 - 0.20 - 0.28 - 0.40 - 0.60			
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	30-34-38	30-33-37	30-34-39	33-38-42	36-40-44
	External Finish Color		Galvanized-steel Sheet				
	Dimension Unit	W: In.	46-7/8	43-5/16		55-1/8	
		D: In.	27-9/16	28-7/8			
		H: In.	7-7/8	9-7/8			
	Weight Unit	Lbs.	62	73		91	95
	Drain Lift Mechanism (Included)	H: In.	21-11/16	27-9/16			
	Field Drainpipe Size I.D.	In.	1				
Outdoor Unit	MCA	A	13	18	25		26
	Recommended Fuse/Breaker Size	A	15	20	30		
	MOCP	A	20	30	40		
	Fan Motor (ECM)	F.L.A.	0.35	0.75			0.4 + 0.4
	Fan Motor Output	W	40	75			86 + 86
	Compressor	Model Type)	DC INVERTER-driven Twin Rotary				INVERTER-driven Scroll
		R.L.A.	12				20
		L.R.A.	14		17.5		27.5
	Airflow	CFM	1,200	1,940			3,530
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound Pressure Level at Cooling *1	dB(A)	48				51
	Sound Pressure Level at Heating *2	dB(A)	47	50			55
	External Finish Color		Munsell No. 3Y 7.8 / 1.1				
	Dimensions	W: In.	31-1/2	37-3/8			
		D: In.	11-13/16 + 7/8	13 + 1-3/16			
		H: In.	23-5/8	37-1/8			53-1/8
	Weight	Lbs.	91	165			260
Refrigerant	Type		R410A				
	Charge	Lbs., Oz.	3, 12	6, 10			10
	Oil	Type (fl. oz.)	FV50S (20)	FV50S (28)			FV50S (45)
Refrigerant Pipe	Gas Side O.D.	In.	1/2	5/8			
	Liquid Side O.D.	In.	1/4	3/8			
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100				
	Length (Max.)	Ft.	100	165			
Connection Method	Indoor/Outdoor		Flared/Flared				

NOTES: Test conditions are based on AHRI 210/240.

*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).

*2. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6.1º C).

*3. Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 17º F (-8º C), W.B. 15º F (-9º C).

*4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

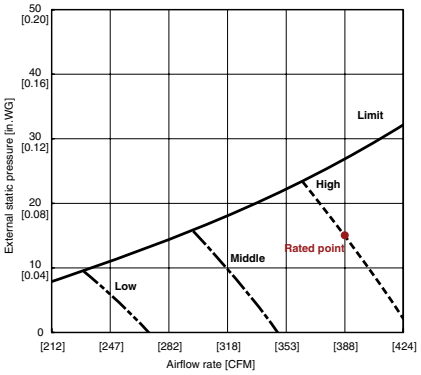
LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

(PEA-A18AA4 MODEL SHOWN)

PEA/PEAD STATIC PERFORMANCE CURVES

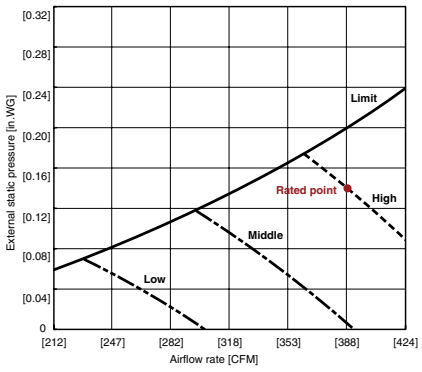
PEA-A12AA4

(External static pressure 0.06 [in.WG]) 208/230V 60Hz



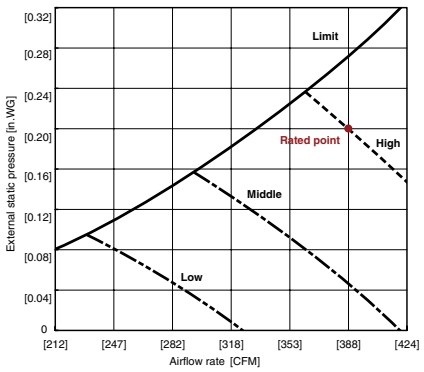
PEA-A12AA4

(External static pressure 0.14 [in.WG]) 208/230V 60Hz



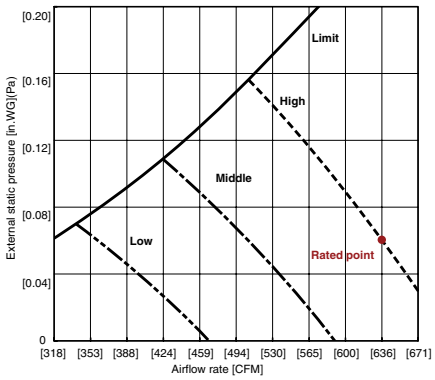
PEA-A12AA4

(External static pressure 0.20 [in.WG]) 208/230V 60Hz



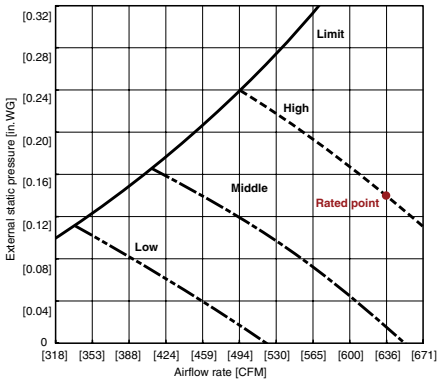
PEA-A18AA4

(External static pressure 0.06 [in.WG]) 208/230V 60Hz



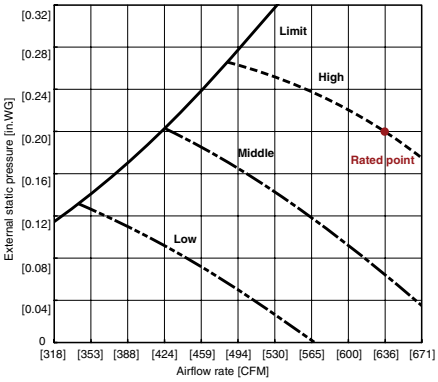
PEA-A18AA4

(External static pressure 0.14 [in.WG]) 208/230V 60Hz



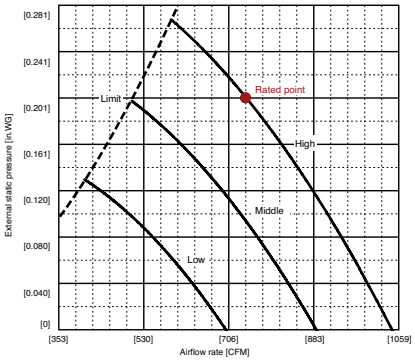
PEA-A18AA4

(External static pressure 0.20 [in.WG]) 208/230V 60Hz



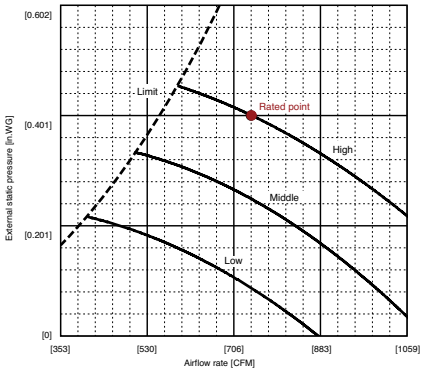
PEAD-A24AA4

(External static pressure 0.20 [in W.G.]) 208-230V 60Hz



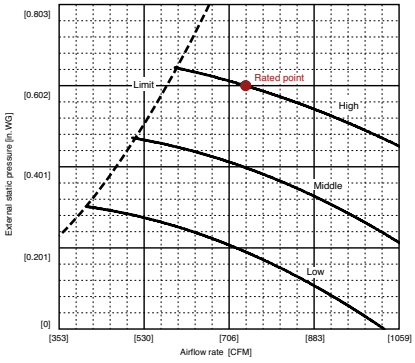
PEAD-A24AA4

(External static pressure 0.40 [in W.G.]) 208-230V 60Hz



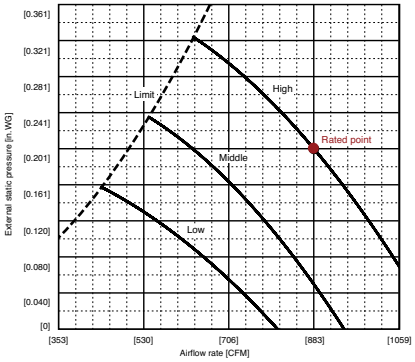
PEAD-A24AA4

(External static pressure 0.60 [in W.G.]) 208-230V 60Hz



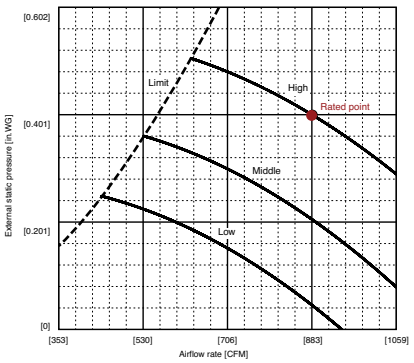
PEAD-A30AA4

(External static pressure 0.20 [in W.G.] 208-230V 60Hz



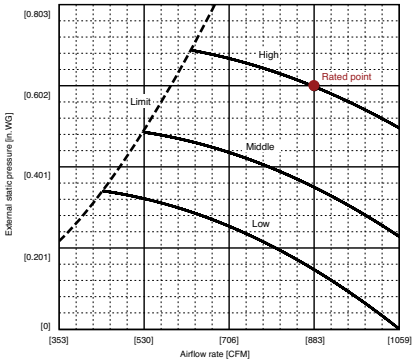
PEAD-A30AA4

(External static pressure 0.40 [in W.G.] 208-230V 60Hz

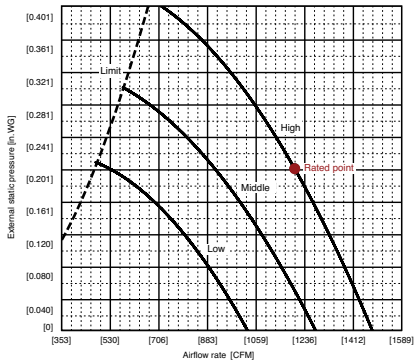


PEAD-A30AA4

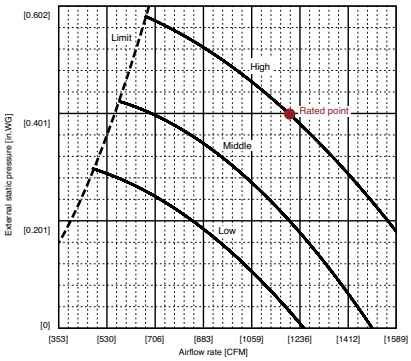
(External static pressure 0.60 [in W.G.] 208-230V 60Hz



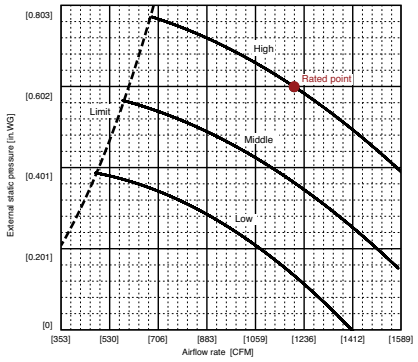
PEAD-A36AA4
(External static pressure 0.20 [in W.G.]) 208-230V 60Hz



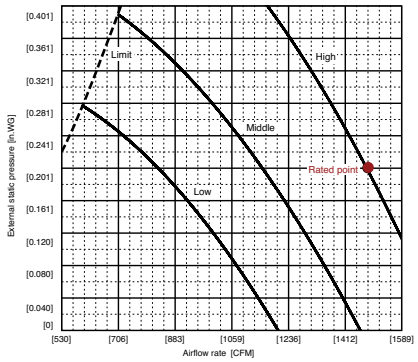
PEAD-A36AA4
(External static pressure 0.40 [in W.G.]) 208-230V 60Hz



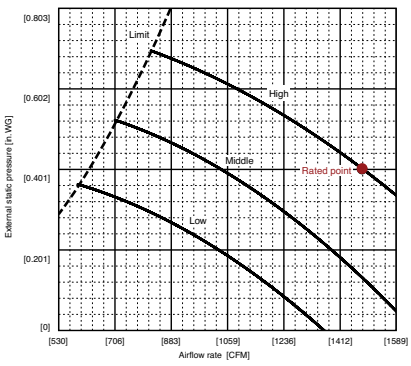
PEAD-A36AA4
(External static pressure 0.60 [in W.G.]) 208-230V 60Hz



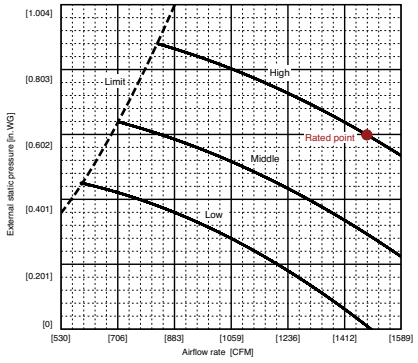
PEAD-A42AA4
(External static pressure 0.20 [in W.G.]) 208-230V 60Hz



PEAD-A42AA4
(External static pressure 0.40 [in W.G.]) 208-230V 60Hz



PEAD-A42AA4
(External static pressure 0.60 [in W.G.]) 208-230V 60Hz



Ducting considerations for the PEA/PEAD Horizontal Ducted Indoor Unit

With the introduction of ducted indoor unit products, some information on duct selection and design seems appropriate. The performance and design of these indoor units, selection, and proper duct sizing and installation are critical elements to consider when designing these indoor units for satisfactory performance and installation.

The maximum available static pressure from the PEA indoor unit is 0.2 in. W.G. and for the PEADs 0.6 in. W.G. Therefore ductless design is an important element to consider for delivery of proper airflow to a conditioned space. The emphasis should still be on moving refrigerant and not air; not only will this dynamic help to work within the static pressure available, but it is also more efficient. Here are some good practices when ducting the low profile unit:

- When reviewing static pressure duct loss in a system, keep in mind the maximum static pressure the unit will see.
- Flexible duct work, while making installations simpler, can add unnecessary static pressure loss if not utilized properly. Most of the static pressure duct loss comes from allowing the duct work to sag. Allowing even a 30 percent sag in the duct work can increase the static pressure loss up to eight times. Flexible duct work runs should be kept to less than 15 ft. Elbows should be kept to a minimum and made as wide as possible.
- Grilles should be selected so that the air velocity is less than 500 ft. per minute, for this prerequisite will help to minimize static pressure loss.

  The chart below shows grille sizes and corresponding flow rates to keep the static pressure loss under 0.05 in.:

Airflow (CFM)	50	100	150	200	250
Grille Size (In. x In.)	6x6	6x6	8x6	10x6, 8x8	12x6, 10x8

- The final component is to understand what the static pressure loss is in the duct work. The chart on the right shows approximate static pressure loss per 100 ft. for various round duct sizes and flow rates. If flexible duct work is being used and the flex remains stretched, 20 percent can be added to the values below to approximate the loss.

Inches of Static Pressure Loss per 100 ft. of Hard Duct				
	4"ø	6"ø	8"ø	10"ø
50 CFM	0.15	0.02	-	-
100 CFM	0.6	0.08	0.02	-
150 CFM	-	0.2	0.04	-
200 CFM	-	0.3	0.08	0.02
250 CFM	-	0.45	0.11	0.04
500 CFM	-	-	0.4	0.15

H2i® P-SERIES HEAT PUMP

INVERTER

Wall-mounted models | Horizontal ducted models | Ceiling-suspended models

Model Name	Indoor Unit		PKA-A30KA4	PKA-A36KA4	PEAD-A30AA4	PEAD-A36AA4	PCA-A30KA4	PCA-A36KA4
	Outdoor Unit		PUZ-HA30NHA4	PUZ-HA36NHA4	PUZ-HA30NHA4	PUZ-HA36NHA4	PUZ-HA30NHA4	PUZ-HA36NHA4
Cooling *1	Rated Capacity	Btu/h	30,000	33,400	30,000	34,000	30,000	34,000
	Capacity Range	Btu/h	18,000-30,000	18,000-34,200	18,000-30,000	18,000-36,000	18,000-30,000	18,000-36,000
	Total Input	W	2,500	2,790	2,450	2,800	2,480	2,810
	Energy Efficiency	SEER	16.5	16.2	16.5	16.8	16.1	16.6
	Moisture Removal	Pints/h	8.1	8.7	8.9	7.3	8.3	8.2
	Sensible Heat Factor		0.70	0.71	0.67	0.76	0.69	0.73
Heating at 47° F *2	Rated Capacity	Btu/h	32,000	38,000	32,000	38,000	32,000	38,000
	Capacity Range	Btu/h	18,000-34,000	18,000-40,000	18,000-34,000	18,000-40,000	18,000-34,000	18,000-40,000
	Total Input	W	2,930	3,410	2,750	3,150	2,990	3,270
	HSPF (IV)	Btu/h/W	9.5	10	9.5	10.4	9.3	10.3
Heating at 17° F *3	Rated Capacity	Btu/h	19,000	25,000	19,000	27,000	19,000	27,000
	Rated Total Input	W	2,570	3,330	2,590	3,250	2,830	3,490
	Maximum Capacity	Btu/h	32,000	38,000	32,000	38,000	32,000	38,000
	Maximum Total Input	W	5,080	6,010	4,930	5,400	5,170	5,720
Heating at 5° F *4	Maximum Capacity	Btu/h	32,000	38,000	32,000	38,000	32,000	38,000
	Maximum Total Input	W	5,770	6,760	5,420	6,100	5,830	6,550
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208/230V *5					
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V					
	Indoor - Outdoor S2 - S3		DC ± 24V					
	Indoor - Remote Controller		MHK1 DC 3V / PAR-21MAAU DC 12V / PAR-FL32MA DC 3V					
Indoor Unit	MCA	A	1		2.73	3.30	1	2
	Blow Motor (ECM)	F.L.A.	0.36	0.57	2.18	2.64	0.54	0.97
	Blow Motor Output	W	56		121	244	95	160
	Airflow (Lo-Mid-Hi or Lo-Mid1-Mid2-Hi)	DRY (CFM)	635-705-775	705-810-920	618-742-883	847-1,024-1,201	565-600-635-705	775-850-920-990
		WET (CFM)	570-635-700	635-730-830	565-671-812	777-953-1,130	530-565-600-670	705-775-850-920
	External Static Pressure *6	In. WG	0		0.14 - 0.20 - 0.28 - 0.40 - 0.60		0	
	Sound Pressure Level (Lo-Mid-Hi or Lo-Mid1-Mid2-Hi)	dB(A)	39-42-45	43-46-49	30-34-39	33-38-42	35-37-39-41	37-39-41-43
	External Finish Color		Munsell No. 1.0Y 9.2 / 0.2		Galvanized-steel Sheet		Munsell No. 6.4Y 8.9 / 0.4	
	Dimension Unit	W: In.	46-1/16		43-5/16	55-1/8	50-3/8	63
		D: In.	11-5/8		28-7/8		26-3/4	
		H: In.	14-3/8		9-7/8		9-1/16	
	Weight Unit	Lbs.	46		73	91	71	79
	Drain Lift Mechanism (Included)	H: In.	N/A		27-9/16		N/A	
	Field Drainpipe Size	In.	1/2 I.D.		1 I.D.		1-1/32 I.D.	
Outdoor Unit	MCA	A	28					
	Recommended Fuse/Breaker	A	30					
	MOCP	A	40					
	Fan Motor (ECM)	F.L.A.	0.4 + 0.4					
	Fan Motor Output	W	60 + 60					
	Compressor	Model (Type)	INVERTER					
		R.L.A.	18					
		L.R.A.	27.5					
	Airflow	CFM	3,530					
	Refrigerant Control		Electronic Expansion Valve					
	Defrost Method		Reverse Cycle					
	Sound Pressure Level at Cooling *1	dB(A)	52					
	Sound Pressure Level at Heating *2	dB(A)	53					
	External Finish Color		Munsell No. 3Y 7.8 / 1.1					
	Dimensions	W: In.	37-3/8					
		D: In.	13 + 1-3/16					
		H: In.	53-1/8					
	Weight	Lbs.	265					
Refrigerant	Type		R410A					
	Charge	Lbs.	12					
	Oil	Type (fl. oz.)	FV50S (45)					
Refrigerant Pipe	Gas Side O.D.	In.	5/8					
	Liquid Side O.D.	In.	3/8					
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100					
	Length (Max.)	Ft.	245					
Connection Method	Indoor/Outdoor		Flared/Flared					
Operating Temperature Range	Cooling		0° F D.B. to 115° F D.B. with Wind Baffle Accessory Installed					
	Heating		-13° F W.B. to +59° F W.B.					

Specifications are subject to change without notice.

Notes:

*1. Rating conditions (cooling)-Indoor: D.B. 26.7° C (80° F), W.B. 19.4° C (67° F); Outdoor: D.B. 35° C (95° F), W.B. 23.9° C (75° F).

*2. Rating conditions (heating)-In door: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. 8.3° C (47° F), W.B. 6.1° C (43° F).

*3. Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -8.3° C (17° F), W.B. -9.4° C (15° F).

*4. Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -15° C (5° F), W.B. -15° C (5° F).

*5. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

*6. External static pressure is factory set to 0.20" WG.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

H2i® P-SERIES HEAT PUMP

Ceiling-cassette models

Model Name	Indoor Unit		PLA-A30BA4	PLA-A36BA4
	Outdoor Unit		PUZ-HA30NHA4	PUZ-HA36NHA4
Cooling *1	Rated Capacity	Btu/h	30,000	34,000
	Capacity Range	Btu/h	18,000-30,000	18,000-36,000
	Total Input	W	2,450	2,690
	Energy Efficiency	SEER	15.6	17
	Moisture Removal	Pints/h	7.2	7.1
	Sensible Heat Factor		0.73	0.71
Heating at 47° F *2	Rated Capacity	Btu/h	32,000	38,000
	Capacity Range	Btu/h	18,000-34,000	18,000-40,000
	Total Input	W	3,440	3,230
	HSPF (IV)	Btu/h/W	9.4	10
Heating at 17° F *3	Rated Capacity	Btu/h	19,000	28,000
	Rated Total Input	W	2,710	3,590
	Maximum Capacity	Btu/h	32,000	38,000
	Maximum Total Input	W	5,720	5,300
Heating at 5° F *4	Maximum Capacity	Btu/h	32,000	38,000
	Maximum Total Input	W	6,630	5,860
Power Supply	Phase, Cycle, Voltage		1-phase, 60Hz, 208/230V *5	
Voltage	Indoor - Outdoor S1 - S2		AC 208 / 230V	
	Indoor - Outdoor S2 - S3		DC ± 24V	
	Indoor - Remote Controller		MHK1 DC 3V / PAR-21MAAU DC 12V PAR-FL32MA DC 3V	
Indoor Unit	MCA	A	1	2
	Fan Motor Output (ECM)	F.L.A.	0.51	1.00
	Fan Motor Output	W	50	120
	Airflow (Lo-Mid-Hi)	DRY (CFM)	490-570-640-740	710-810-920-1,060
		WET (CFM)	460-530-600-710	670-770-880-1,030
	Sound Pressure Level (Lo-Mid-Hi)	dB(A)	28-30-32-34	32-34-37-40
	External Finish Color		Munsell No. 6.4Y 8.9 / 0.4 (Grille)	
	Dimension Unit	W: In.	33-1/16 (Grille: 37-3/8)	
		D: In.	33-1/16 (Grille: 37-3/8)	
		H: In.	10-3/16 (Grille: 1-3/8)	11-3/4 (Grille 1-3/8)
	Weight Unit	Lbs.	51 (Grille: 13)	55 (Grille: 13)
	Drain Lift Mechanism (Included)	H: In.	33-7/16	
	Field Drainpipe Size	In.	1 I.D.	
Outdoor Unit	MCA	A	28	
	Recommended Fuse/Breaker	A	30	
	MOCP	A	40	
	Fan Motor	F.L.A.	0.4 + 0.4	
	Fan Motor Output	W	60 + 60	
	Compressor	Model (Type)	INVERTER-driven Scroll	
		R.L.A.	18	
		L.R.A.	27.5	
	Airflow	CFM	3,530	
	Refrigerant Control		Electronic Expansion Valve	
	Defrost Method		Reverse Cycle	
	Sound Pressure Level at Cooling *1	dB(A)	52	
	Sound Pressure Level at Heating *2	dB(A)	53	
	External Finish Color		Munsell No. 3Y 7.8 / 1.1	
	Dimensions	W: In.	37-3/8	
		D: In.	13 + 1-3/16	
		H: In.	53-1/8	
	Weight	Lbs.	265	
Refrigerant	Type		R410A	
	Charge	Lbs.	12	
	Oil	Type (fl. oz.)	FV50S (45)	
Refrigerant Pipe	Gas Side O.D.	In.	5/8	
	Liquid Side O.D.	In.	3/8	
Refrigerant Pipe Length	Height Difference (Max.)	Ft.	100	
	Length (Max.)	Ft.	245	
Connection Method	Indoor/Outdoor		Flared/Flared	
Operating Temperature Range	Cooling		0° F D.B. to 115° F with Wind Baffle Accessory Installed	
	Heating		-13° F W.B. to +59° F W.B.	

Specifications are subject to change without notice

Notes:

*1. Rating conditions (cooling)-Indoor: D.B. 26.7° C (80° F), W.B. 19.4° C (67° F); Outdoor: D.B. 35° C (95° F), W.B. 23.9° C (75° F).

*2. Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. 8.3° C (47° F), W.B. 6.1° C (43° F).

*3. Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -8.3° C (17° F), W.B. -9.4° C (15° F).

*4. Rating conditions (heating)-Indoor: D.B. 21.1° C (70° F), W.B. 15.6° C (60° F); Outdoor: D.B. -15° C (5° F), W.B. -15° C (5° F).

*5. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

LIMITED WARRANTY | Seven-year warranty on compressor. Five-year warranty on parts.

MHK1 Wireless Wall-mounted Remote Controller Kit

MRCH1

MIFH1

RED LINK™ Wireless Technology

WIRELESS WALL-MOUNTED REMOTE CONTROLLER

- Backlit, easy-to-read display
- Dual setpoint control with system changeover
- Enabled with RedLINK™ reliability
- Installs anywhere with simple wall-mounted design
- Compatible with MCCH1 Portable Central Controller and MOS1 Outside Air Sensor
- Requires wireless interface (included in kit)

MIFH1 WIRELESS RECEIVER

- Required for MRCH1 Wireless Remote Controller - included in MHK1 Kit
- Enabled with RedLINK reliability

MCCH1

PORTABLE CENTRAL CONTROLLER

- Up to 16 RedLINK™ devices
- Requires MHK1 per indoor unit
- Monitor and control On/Off, Mode, and Set Temp
- Schedule override capability
- Does not interfere with other wireless devices
- Displays outside air temperature and humidity when used with MOS1

MOS1

OUTSIDE AIR SENSOR

- Monitors outside air temperature and humidity
- Displays on MHK1 Wireless Wall-mount Remote Controller and MCCH1 Portable Central Controller

Optional RedLINK Internet Gateway
(Available through select distributors)

- Connects any RedLINK Comfort System to the Internet to provide remote access from PC, smartphone or tablet
- No monthly fee, free app download
- Remotely monitor and control your cooling and heating system, at any time, from any place
- View/change system settings and access multiple systems/zones
- Provides over 90° temperature/comfort alerts through a dedicated website
- Upgrades automatically as new features become available

Wireless Technology

Just connect the Gateway device (far right) to your internet router, download the free app, register a serial number with the Gateway web site and pair the system with the RedLINK™ enabled devices of your choice. You'll be ready to control in about 15 minutes.

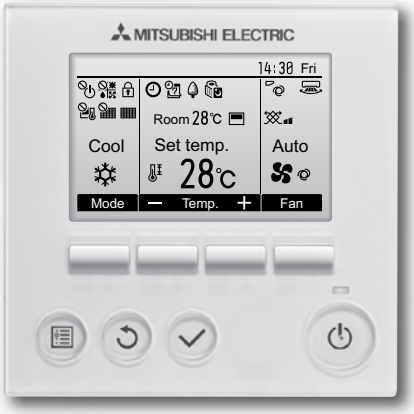
MHK1 FEATURES

FUNCTION	DESCRIPTION
ON/OFF	On/Off operation for a single indoor unit
Operation Mode	Cool / Drying / Auto / Heat / Fan operation modes dependent on connected system
Temperature Setting	Set temperature from 40° F - 99° F depending on operation mode and connected system
System Changeover Deadband Value	2° F - 8° F
Schedule Operation	5-2, 5-1-1
Optimal Start	Eliminates the guesswork when setting your schedule. Allows the remote controller to "learn" how long your split-zoning system takes to reach programmed temperature setting, so the temperature is reached at the time you set
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto Available fan speed settings dependent on connected system
Airflow Direction Setting	Airflow angles: 100° - 80° - 60° - 40° and oscillate available airflow direction settings dependent on connected system
Permit/Prohibit Function	Individual prohibit operations for each remote controller function (ON/OFF, Set Temperature and Operation Mode)
Space Temperature	Displays the measured space temperature
Error Indication	Displays error code
Display Outside Temperature and Humidity	Requires optional MOS1 Outside Air Sensor
Dimensions - (W x D x H)	Remote Controller: 5-3/16" x 1-1/2" x 3-9/16" Receiver: 3-1/4" x 1-5/16" x 6-7/16"
Operating Ambient Temperature	Remote Controller: 32° F – 120° F Receiver: -40° F – 165° F
Operating Ambient Humidity	Remote Controller: 5% - 90% RH (non-condensing) Receiver: 5% - 90% RH (non-condensing)
Power Supply	2 AA batteries (included)

Note: MHK1 Compatible with current INVERTER-driven M-Series as noted in data charts.

CONTROLLERS | PAR-31MAA and PAC-YT53 Wireless Controllers

PAR-31MAA BACKLIT MA REMOTE CONTROLLER



- Room Temperature: Displays room temperature sensed either at the indoor unit (default) or at the remote controller
- Set Temperature Range Limit: From the Backlit MA Controller, the allowable set temperature range can be reduced for cool and heat modes
- Function Lock Out: Prohibits all functions or all functions except On/Off from the backlit MA controller
- Wiring: connects using two-wire, stranded, non-polar control wire to indoor unit connection terminal or control adapter requires crossover wiring for indoor unit grouping
- Dimensions: 4-3/4 x 3/4 x 4-3/4" (120 x 19 x 120 mm)

PAC-YT53CRAU SIMPLE MA CONTROLLER

Controls group operation for up to 16 indoor units in a single group

- Set temperature range limit: Simple MA allowable set temperature range can be reduced for cool and heat modes
- Room temperature can be sensed either at the indoor unit (default) or at the remote controller
- Grouping: Same group use only with other PAC-YT53CRAU Simple MA Controllers, PAR-31MAA Backlit MA Remote Controller, and PAR-FL/A32MA Wireless MA Remote Controllers with up to two remote controllers per group
- Wiring: Uses two-wire, stranded, non-polar control wire for connecting TB15 connection terminal on the indoor unit. Requires crossover wiring for grouping across indoor units
- Dimensions: 2-3/4 x 9/16 x 4-3/4" (70 x 14.5 x 120mm)

PAC-SF83MA-E M-NET ADAPTOR

- Connects P-Series System to Mitsubishi Electric's M-NET Control network
- Provides connection and control from Central Control Systems
- Identifies P-Series System with address settings

PAR-FL32MA Hand-held Wireless Controller

The PAR-FL32MA provides complete control for all P-Series indoor units. Use requires the PAR-FA32MA Receiver installed in the indoor unit. All PKA units have the receiver built-in as standard and do not require the PAR-FA32MA.

FUNCTION	DESCRIPTION
ON/OFF	On/Off operation for group of up to 16 indoor units
Operation Mode	Cool / Drying / Auto / Heat / Fan only Available operation modes vary depending on connected system
Temperature Setting	Set temperature from 67°F – 87°F depending on operation mode and connected system
Timer Operation	On/Off timer
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto Available fan speed settings vary depending on the connected system
Air Flow Direction Setting	Air flow angles: 100º - 80º - 60º - 40º and oscillate Available air flow direction settings vary depending on connected system
Permit/Prohibit Function	Individual prohibit operations for each remote controller function (ON/OFF, Set Temperature, Operation Mode and Filter reset)
Space Temperature	Displays setpoint temperature only
Dimensions - (W x D x H)	5-1/8" x 3/4" x 4-3/4"
Power Supply	2 AAA batteries

H2I P-SERIES (PUZ-HA**NA4) OPERATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	90º F D.B., 73º F W.B.	115º F D.B.
	MINIMUM	66º F D.B., 59º F W.B.	0º F D.B.*
HEATING	MAXIMUM	83º F D.B.	70º F D.B., 59º F W.B.
	MINIMUM	63º F D.B.	-13º F D.B., -13º F W.B.

* With wind baffle accessory installed. Without wind baffle installed, the minimum temperature will be 23º F D.B.

P-SERIES (PUY/PUZ-NHA4 AND NA5 MODELS) OPERATING CONDITIONS

		INDOOR INTAKE AIR TEMPERATURE	OUTDOOR INTAKE AIR TEMPERATURE
COOLING	MAXIMUM	95º F D.B., 71º F W.B.	115º F D.B.
	MINIMUM	67º F D.B., 57º F W.B.	0º F D.B.*
HEATING	MAXIMUM	80º F D.B., 67º F W.B. (PUZ-A)	70º F D.B., 59º F W.B. (PUZ-A)
	MINIMUM	70º F D.B., 60º F W.B. (PUZ-A)	12º F D.B., 10º F W.B. (PUZ-A)

* With wind baffle accessory installed. Without wind baffle installed, the minimum temperature will be 23º F D.B.

REFRIGERANT TUBING SETS

Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.	Use With Mitsubishi Electric Models
MLS141212T-15	1/4 x 1/2	15	1/2"	PKA-A12,18HA4; PLA-A12,18BA4; PEA-A12, A18AA4
MLS141212T-30	1/4 x 1/2	30	1/2"	
MLS141212T-50	1/4 x 1/2	50	1/2"	
MLS141212T-65	1/4 x 1/2	65	1/2"	
MLS141212-100	1/4 x 1/2	100	1/2"	
MPLS385812T-10	3/8 x 5/8	10	1/2"	PKA-A24,30,36KA4; PLA-A24,30,36,42BA4; PCA-A24,30,36,42KA4; PEAD-A24-42AA4
MPLS385812T-15	3/8 x 5/8	15	1/2"	
MPLS385812T-30	3/8 x 5/8	30	1/2"	
MPLS385812T-50	3/8 x 5/8	50	1/2"	
MPLS385812T-65	3/8 x 5/8	65	1/2"	
MPLS385812T-100	3/8 x 5/8	100	1/2"	

REFRIGERANT LINE LENGTH FLARE/FLARE

INDOOR UNIT	OUTDOOR UNIT	LENGTH IN FEET	HEIGHT IN FEET
PKA-A12HA4	PUY-A12NHA4	100	100
PKA-A18HA4	PUY/Z-A18NHA4	100	100
PKA-A24KA4	PUY/Z-A24NHA4	165	100
PKA-A30KA4	PUY/Z-A30NHA4	165	100
PKA-A30KA4 (H2i)	PUZ-HA30NHA4	245	100
PKA-A36KA4	PUY/Z-A36NHA4	165	100
PKA-A36KA4 (H2i)	PUZ-HA36NHA4	245	100
PLA-A12BA4	PUY-A12NHA4	100	100
PLA-A18BA4	PUY/Z-A18NHA4	100	100
PLA-A24BA4	PUY/Z-A24NHA4	165	100
PLA-A30BA4	PUY/Z-A30NHA4	165	100
PLA-A30BA4 (H2i)	PUZ-HA30NHA4	245	100
PLA-A36BA4	PUY/Z-A36NHA4	165	100
PLA-A36BA4 (H2i)	PUZ-HA36NHA4	245	100
PLA-A42BA4	PUY/Z-A42NHA5	165	100
PCA-A24KA4	PUY/Z-A24NHA4	165	100
PCA-A30KA4	PUY/Z-A30NHA4	165	100
PCA-A30KA4 (H2i)	PUZ-HA30NHA4	245	100
PCA-A36KA4	PUY/Z-A36NHA4	165	100
PCA-A36KA4 (H2i)	PUZ-HA36NHA4	245	100
PCA-A42KA5	PUY/Z-A42NHA5	165	100
PEA-A12AA4	PUY-A12NHA4	100	100
PEA-A18AA4	PUY/Z-A18NHA4	100	100
PEAD-A24AA4	PUY/Z-A24NHA4	165	100
PEAD-A30AA4	PUY/Z-A30NHA4	165	100
PEAD-A30AA4 (H2i)	PUZ-HA30NHA4	245	100
PEAD-A36AA4	PUY/Z-A36NHA4	165	100
PEAD-A36AA4 (H2i)	PUZ-HA36NHA4	245	100
PEAD-A42AA4	PUY/Z-A42NHA5	165	100

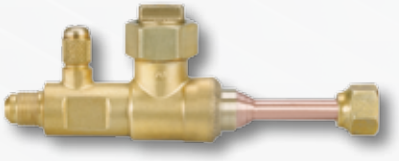
P SERIES ACCESSORIES

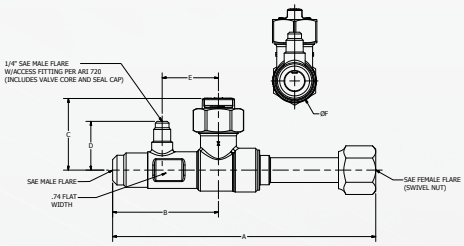
Description	Accessory Number	Use With
Condensate		
Drain Pan Level Sensor / Shut-down Switch	DPLS1	P-Series Indoor Units
MaxiBlue Condensate Pump: 230v	X87-721	Indoor Unit Capacity < 30,000 Btu/h
MegaBlue Condensate Pump: 230v	X87-835	Indoor Unit Capacity > 30,000 Btu/h
Blue Diamond Sensor Extension Cable - 15 Ft.	C13-103	All Blue Diamond Pumps
Blue Diamond Multi Tank Drain Tank Kit	C21-014	MegaBlue & MaxiBlue Pumps
Blue Daimond Rubber Mounting Feet (Pair)	F10-001	MegaBlue, MaxiBlue, & MiniBlue Pumps
Mitsubishi Pump Kit	PAC-SH84DM-E	PCA-A**KA
Sauermann mini condensation pump: 230V	Si30-230	Indoor Unit Capacity < 30,000 Btu/h
Miscellaneous		
Converts low profile ducted indoor unit from rear return to bottom return	BRP-1	Bottom Return Plate for SEZ-KD09NA
Converts low profile ducted indoor unit from rear return to bottom return	BRP-2	Bottom Return Plate for PEA-A12AA
Converts low profile ducted indoor unit from rear return to bottom return	BRP-3	Bottom Return Plate for PEA-A18AA
Piping/Valves		
1/4" x 1/2" Tubing Set - 100 ft	MLS141212T-100	Indoor Unit Capacity < 18,000 Btu/h
1/4" x 1/2" Tubing Set - 15 ft	MLS141212T-15	Indoor Unit Capacity < 18,000 Btu/h
1/4" x 1/2" Tubing Set - 30 ft	MLS141212T-30	Indoor Unit Capacity < 18,000 Btu/h
1/4" x 1/2" Tubing Set - 50 ft	MLS141212T-50	Indoor Unit Capacity < 18,000 Btu/h
1/4" x 1/2" Tubing Set - 65 ft	MLS141212T-65	Indoor Unit Capacity < 18,000 Btu/h
3/8" x 5/8" Tubing Set - 10 ft	MPLS385812T-10	Indoor Unit Capacity > 24,000 Btu/h
3/8" x 5/8" Tubing Set - 100 ft	MPLS385812T-100	Indoor Unit Capacity > 24,000 Btu/h
3/8" x 5/8" Tubing Set - 15 ft	MPLS385812T-15	Indoor Unit Capacity > 24,000 Btu/h
3/8" x 5/8" Tubing Set - 30 ft	MPLS385812T-30	Indoor Unit Capacity > 24,000 Btu/h
3/8" x 5/8" Tubing Set - 50 ft	MPLS385812T-50	Indoor Unit Capacity > 24,000 Btu/h
3/8" x 5/8" Tubing Set - 65 ft	MPLS385812T-65	Indoor Unit Capacity > 24,000 Btu/h
Refrigeration Ball Valve-Braze/Schrader/Insulated-1/4"	BV14BBSI	P-Series Outdoor Units
Refrigeration Ball Valve-Braze/Schrader/Insulated-3/8"	BV38BBSI	P-Series Outdoor Units
Refrigeration Ball Valve-Braze/Schrader/Insulated-1/2"	BV12BBSI	P-Series Outdoor Units
Refrigeration Ball Valve-Braze/Schrader/Insulated-5/8"	BV58BBSI	P-Series Outdoor Units

OPTIONAL ACCESSORIES (CONT.)

Description	Accessory Number	Use With
Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4"	BV14FFSI2	P-Series Outdoor Units
Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8"	BV38FFSI2	P-Series Outdoor Units
Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/2"	BV12FFSI2	P-Series Outdoor Units
Refrigeration Ball Valve-Flare/Schrader/Insulated-5/8"	BV58FFSI2	P-Series Outdoor Units
Twinning Systems - Refrigerant Distribution Pipe	MSDD-50SR-E	P-Series IDU's supported on A24, A36, and HA36 outdoor units only
Mounting		
Condensing unit mounting pad: 16"x36"x3"	ULTRILITE1	PUZ(Y)-A12/18
Condensing unit mounting pad: 24"x42"x3"	ULTRILITE2	PUZ(Y)-A24/30/36/42; PUZ-HA30/36/42
Platform Stands (Pair)	DSD-400N	P-Series Outdoor Units
Wall Bracket - pair / Painted Steel	CWMB1	P-Series Outdoor Units
Outdoor Unit Modification		
Air Outlet Guide	PAC-SG58SG-E	PUZ(Y)-A12/18
Air Outlet Guide (A42 installation requires 2 pieces)	PAC-SG59SG-E	PUZ(Y)-A24/30/36/42
Drain Pan	PAC-SG63DP-E	PUZ(Y)-A12/18
Drain Pan	PAC-SG64DP-E	PUZ(Y)-A24/30/36/42; PUZ-HA36
Drain socket - connector	PAC-SG61DS-E	PUZ(Y)-A42
Indoor Unit Modification		
Air outlet shutter plates (1 set = 2 plates)	PAC-SH51SP-E	All PLA-ABA Models
Multi-Function casement (High-efficiency filter element not included)	PAC-SH53TM-E	All PLA-ABA Models
Filters		
High Efficiency (MERV 8) Filter Element	PAC-SE81KF-E	PCA
High Efficiency (MERV 10) Filter Element (Requires PAC-SH53TM-E Multi-Function Casement)	PAC-SH59KF-E	PLA-A**BA4
Filter Boxes		
Filter Box (MERV 13)	FBM2-3	PEAD-A24/30AA
Filter Box (MERV 8)	FBL1-2	PEA-A12AA
Filter Box (MERV 8)	FBL1-3	PEA-A18AA
Filter Box (MERV13)	FBM2-4	PEAD-A36/42AA
Control Options and Accessories		
Relay Kit for external heater adapter connects to CN24 on indoor control board	CN24RELAY-KIT-CM3	P-Series - all indoor units
Wire for Remote on/off with CN32 connector	PAC-715AD	P-Series - all indoor units
Connector and wire for Operation status/error, booster fan control for fresh air using CN51	PAC-725AD	P-Series - all indoor units
Lockdown bracket for remote controller	RCMKP1CB	P-Series Wireless Hand Held Controller
i-see sensor corner panel	PAC-SA1ME-E	PLA-A**BA4
Remote temperature sensor for indoor units	PAC-SE41TS-E	P-Series - all indoor units
Remote Operation Adaptor - CN34 - Remote On/Off	PAC-SE55RA-E	P-Series - all indoor units
Connector and wire for CN-152 Aux Heat	PAC-SE59RA-E	PKA SERIES
Remote Operation Adapter with wire terminals for remote on/off and operation status/error	PAC-SF40RM-E	P-Series - all indoor units
M-NET control adapter for use with M-NET Control Systems and Building Management System	PAC-SF83MA-E	P-Series - all outdoor units
i-see sensor Kit	PAC-SH91MK-E	All PCA indoor models
Service Tool with display screen for operation and diagnostic data	PAC-SK52ST	All P-Series out door units
Multi-functional, wall mounted, hard wired controller (used for twinning, lead/lag, and 7 day programmable applications)	PAR-31MAA-G	P-Series - all indoor units
Wireless wall-mounted remote controller (MRCH1) with a signal receiver (MIFH1) and cable (MRC1) all in one kit	MHK1	P-Series - all indoor units
Portable Central Controller (PCC) - controls up to 16 RedLINK Zones - requires an MHK1 on each indoor unit	MCCH1	P-Series - all indoor units
Outdoor Air Sensor - reads both outside temperature and humidity displayed on MRCH1 and MCCH1 if installed	MOS1	P-Series - all indoor units
Wireless Signal Receiver used with PAR-FL32MA	PAR-FA32MA	P-Series - all indoor units
Wireless Remote Controller used with PAR-FA32MA	PAR-FL32MA	P-Series - all indoor units
Wireless Signal Receiver - Ducted AHU	PAR-SA9CA-E	All PEA and PEAD Ducted Air Handlers use with PAR-FL32MA Controller
Wireless Signal Receiver Corner Panel for PAR-FL32MA	PAR-SA9FA-E	PLA-A**BA4
Wireless remote controller kit with i-see sensor (includes T7WE13714 wireless remote controller)	PAR-SA92MW-E	PCA-A**KA4/5
Wireless remote controller kit includes T7WE13714 wireless remote controller	PAR-SL93B-E	PCA-A**KA4/5
3-Pole Disconnect Switch 30 Amps 600 volts rated for turning power supply off at indoor unit - fits 2" X 4" utility box	TAZ-MS303	P-Series - all indoor units
Low Ambient		
Wind Baffle	WB-PA1	P-Series - PUY/Z A12, 18MBH
Wind Baffle	WB-PA2	P-Series - PUY/Z A24, 30, 36MBH require 1 piece - PUY/Z42 and PUZ-HA30, 36, 42MBH require 2 pieces

BALL VALVES





DIAMONDBACK™ BV-SERIES BALL VALVES

Diamondback BV-Series ball valves include the following features:

- Engineered for mini-split and multi-split HVAC units
- Full port design with flare connections
- 700 PSIG rated
- Flare connections

Other important information:

- Size available: 1/4", 3/8", 1/2", 5/8"
- Fully factory assembled
- Furnace brazed and pressure tested
- Each ball valve is equipped with Schrader® Valve for refrigerant service
- Temperature range: -40˚ F to +325˚ F (-40˚ C to +149˚ C)
- Forged brass body and seal cap
- Polytetrafluroethylene (PTFE) seals and gaskets (no synthetic O-rings)
- Seal cap design permits valve operation without removal of seal cap
- One-year limited materials and workmanship warranty on ball valves

Part Number	SAE Flare	A	B	C	D	E	F
BV14FFSI2	1/4"	6.26	2.67	1.81	1.23	1.42	1.10
BV38FFSI2	3/8"	6.30	2.67	1.81	1.23	1.42	1.10
BV12FFSI2	1/2"	6.51	2.67	1.81	1.23	1.42	1.10
BV58FFSI2	5/8"	6.64	2.67	1.81	1.23	1.42	1.10

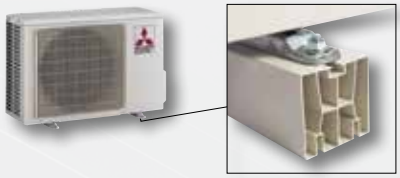
∗ Ball valves come with an insulation piece.

PLATFORM STANDS

DIAMONDBACK PLATFORM STANDS

Lift the outdoor unit to new heights.

- Easy to install
- Available for all sizes of mini-split or multi-split systems
- Color matched to the outdoor units
- One-year warranty



Model DSD-400N
L: 15 3/4"
W: 3 1/4"
H: 3 1/4"

FILTER BOXES

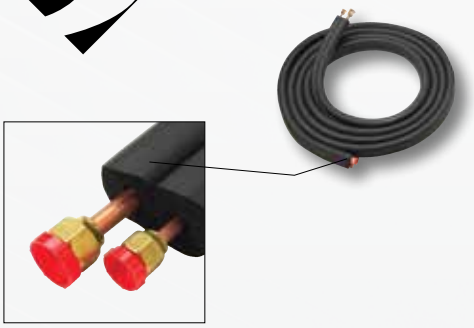
FILTER BOXES

FB Series filter boxes are available in compatible sizes for all M-Series horizontal ducted indoor units. FBL1 filter boxes include 1" thick pleated MERV 8 filter(s) installed. Filters are tested in accordance with ANSI/ASHRAE Standard 52.2 and Rated Class 2 under U.L. Standard 900.

The cabinet is constructed of non-insulated 20 gauge, G-60 galvanized steel with a foam gasket and provides an air-tight connection to the indoor unit and access door. Gasket material complies with UL 723 requirements. In addition, a screw-through cabinet design for secure attachment to indoor unit and return connection in rear is easily field-converted to bottom return.

Part Number	Part Description
FBL1-1	FB Series Filter Box for SEZ-KD09NA4
FBL1-2	FB Series Filter Box for PEA-A12AA4
FBL1-3	FB Series Filter Box for PEA-A18AA4
FBM2-3	FB Series Filter for PEAD-A24/30AA4

DIAMONDBACK™

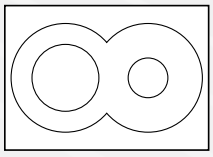


Caps On

DIAMONDBACK LINESETS

Diamondback linesets include the following features:

- Quick, efficient, and economical field installation using factory applied Twin Lube insulation and flare connections with flare nuts mounted
- Correct lengths for reducing waste and time
- Quality, consistency, and economy
- All Diamondback lineset tubing is tested in accordance with ASTM E243
- One year warranty



"TWIN-TUBE" LINESET INSULATION DESIGN

- Balanced outside diameter for uniform coil/uncoil position stability.
- Minimum 1/2" insulation thickness on both tubes
- Meets UL94 and ASTM E84 Standard

Lineset Model Number	Tube Size (In.)	Length Ft.	Insul.
MLS141212T-15	1/4 x 1/2	15	1/2"
MLS141212T-30	1/4 x 1/2	30	1/2"
MLS141212T-50	1/4 x 1/2	50	1/2"
MLS141212T-65	1/4 x 1/2	65	1/2"
MLS141212T-100	1/4 x 1/2	100	1/2"
MPLS385812T-10	3/8 x 5/8	10	1/2"
MPLS385812T-15	3/8 x 5/8	15	1/2"
MPLS385812T-30	3/8 x 5/8	30	1/2"
MPLS385812T-50	3/8 x 5/8	50	1/2"
MPLS385812T-65	3/8 x 5/8	65	1/2"
MPLS385812T-100	3/8 x 5/8	100	1/2"

Model Number	Tube Size	Length	Insul.	Use with Mitsubishi Electric Models
MLS141212T-15	1/4" x 1/2"	15'	1/2"	P-Series Indoor Units (PKA,PLA,PEA) from 12,000 Btu/h to 18,000 Btu/h CITY MULTI Indoor Units 6,000 to 18,000 Btu/h
MLS141212T-30	1/4" x 1/2"	30'	1/2"	
MLS141212T-50	1/4" x 1/2"	50'	1/2"	
MLS141212T-65	1/4" x 1/2"	65'	1/2"	
MLS141212T-100	1/4" x 1/2"	100'	1/2"	
MPLS385812T-10	3/8" x 5/8"	10'	1/2	P-Series Indoor Units (PCA, PEAD, PKA, PLA) from 24,000 Btu/h to 42,000 Btu/h CITY MULTI Indoor Units 24,000 to 54,000 Btu/h
MPLS385812T-15	3/8" x 5/8"	15'	1/2"	
MPLS385812T-30	3/8" x 5/8"	30'	1/2"	
MPLS385812T-50	3/8" x 5/8"	50'	1/2"	
MPLS385812T-65	3/8" x 5/8"	65'	1/2"	
MPLS385812T-100	3/8" x 5/8"	100'	1/2"	

LINE - HIDE™

Lineset Cover System

Put a professional finish on air-conditioning installations with an easy-to-install modular system that beautifies exteriors and protects linesets, drainlines, and wiring.

- Can be used indoors, too! Meets UL94v-0 for interior applications
- Has snap-on covers and a full selection of couplings, elbows, T-joints, caps, and more for any application: complex or simple
- Offers high-quality PVC with UV inhibitors for outdoor service in all weather conditions
- Can be painted with most house paints to match exterior decors
- Is not just for HVAC. Hides any exterior cabling, piping, or wiring
- Is available in four sizes: 3", 4", and 6" tubes
- One-year warranty

Download a brochure at www.line-hide.com to find out more information.

Lossnay®

MITSUBISHI ELECTRIC

Improved sound attenuation makes Lossnay® units quiet enough for places where silence is a must such as meeting rooms and libraries. A free-cooling function is standard to help reduce costs and boost efficiency. The integrated bypass damper design makes installation and system management quick and efficient. Lossnay models offer three ventilation modes:

- Energy Recovery - Heat Exchange
- Bypass - No Exchange
- Auto - Heat Exchange/Bypass

Model	CFM	Model	CFM
LGH-F300RX5-E1	300	LGH-F470RX5-E1	470
LGH-F600RX5-E1	600	LGH-F1200RX5-E1	1,200

M-SERIES
INVERTER-driven

For more information on our INVERTER-driven product line visit our website at ***www.mitsubishipro.com***

CITY MULTI®
Variable Refrigerant Flow

For more information on our CITY MULTI VRF product line visit our website at ***www.mitsubishipro.com***

MITSUBISHI ELECTRIC

COOLING & HEATING

©2014 Mitsubishi Electric US, Inc.
www.mitsubishipro.com

© 2014 Mitsubishi Electric US, Inc.
Mitsubishi Electric is a registered trademark of Mitsubishi Electric Corporation.
The three-diamond logo is a registered logo of Mitsubishi Electric Corporation.

*Hyper-Heating technology Patent Pending.

RedLINK and RedLINK wireless technology logo are a registered trademark of Honeywell International

Use of the AHRI Certified™ mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org

Specifications shown in this brochure are subject to change without notice.

See complete warranty for terms, conditions, and limitations. A copy is available from Mitsubishi Electric, 1340 Satellite Blvd., Suwanee, GA 30024
For more information visit **www.mitsubishipro.com**

PSERIES 11.14 REPRINT OA Printed in the U.S.A

Please recycle.

Follow us on: /mehvac /mitsubishihvac /mitsubishihvac